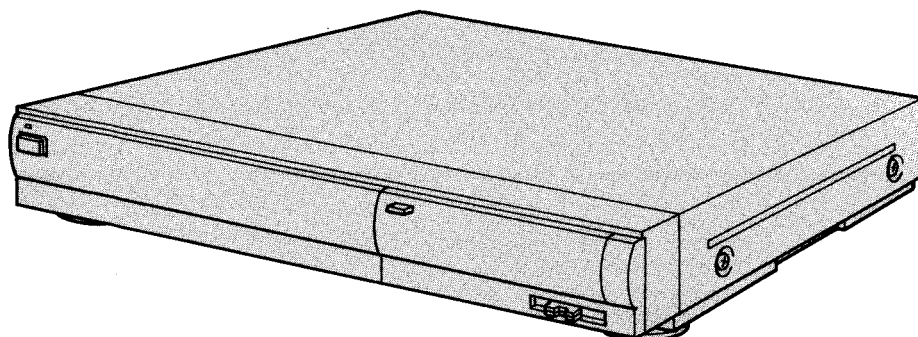


Service Manual

General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List

Video Cassette Recorder

Panasonic **VHS**
SECAM
Hi-Fi HQ
NV-F65F


SPECIFICATIONS

ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	SOURCE: 220V 50/60Hz	AUDIO	OUTPUT: AUDIO OUT Connector (Phono type) -8dBV (400mV), Less than 1k Ω EURO AV Connector (21 pin $\times$ 2) -6dBV (500mV), Less than 1k Ω HEAD PHONE Jack -30dBV, 8 Ω
	CONSUMPTION: 32 watts		
RECORDING SYSTEM	2 rotary heads, helical scanning system		TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
	SECAM	TAPE FORMAT	VHS Cassette tape (Tape width 12.7 mm)
TV TUNER SYSTEM	VHF I: CH2~CH4 (SECAM L) VHF III: CHB~CHQ (SECAM L) 75 Ω unbalanced	TAPE SPEED	SP: 23.39 mm/s LP: 11.695 mm/s (AUDIO) Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape (AUDIO) FF/REW Time 2.5 min. with 180 min. type tape
	UHF: CH21~CH69 (SECAM L) 75 Ω unbalanced		
RF OUT SYSTEM	UHF: CH38 $\pm$ 4 (SECAM L) 73 $\pm$ 3 dB μ , 75 Ω terminated	DIMENSIONS	430(W) $\times$ 86(H) $\times$ 363(D) mm
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for trick play (L'-R' heads)	WEIGHT	5.7 kg
	INPUT: EURO AV Connector (21 pin $\times$ 2) 1.0 Vp-p, 75 Ω terminated	STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller (Build in Digital Scanner type) 2 pc. Audio Cables 1 pc. Programme Sheet 1 pc. AC Mains Lead
	OUTPUT: EURO AV Connector (21 pin $\times$ 2) 1.0 Vp-p, 75 Ω terminated		
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)		
	INPUT: AUDIO IN Connector (Phono type) More than -10dBV (316 mV), more than 50k Ω EURO AV Connector (21 pin $\times$ 2) More than -10dBV (316 mV), more than 10k Ω MICROPHONE JACK -70dBV		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-91, Japan

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.

Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.

Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...

Section 4 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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Technical Information

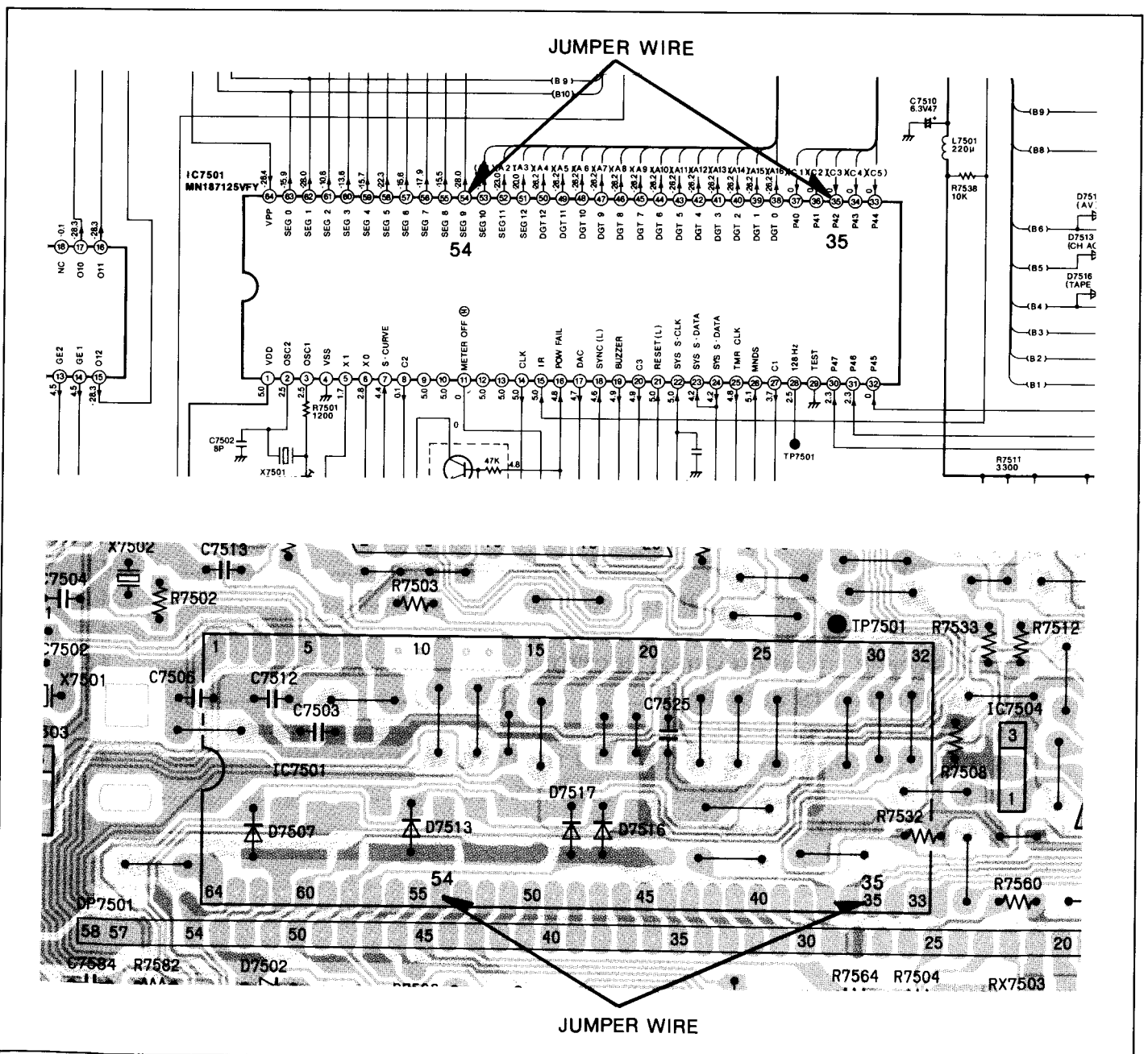
Please pay attention when you replace the memory IC IC7502 (MN12C261D) on Timer C.B.A.

Since the any data for new memory IC has been initialized at factory, the buzzer "on" data should be always set on the memory IC when your repairing.

The following steps must be performed after installing the new memory IC to Timer C.B.A.

Method (Contacting jumper wire on Timer C.B.A.)

1. Contact the lead wires between pin 54 and pin 35 on the Timer IC7501 twice by using jumper wire as shown below.
2. Confirm that "Beep-Beep" sound from the VTR warm you when setting any programmes.



SERVICE INFORMATION

1-1. HOW TO CHECK THE CRACKED CHIP PART

- (1) Apply heat to the soldered portions of chip part using a soldering iron for about 2-3 seconds.
- (2) If the chip part is faulty, it will be broken or cracked.

Caution: Do not leave soldering iron on the PCB too long as damage may occur to the PCB or the chip parts.

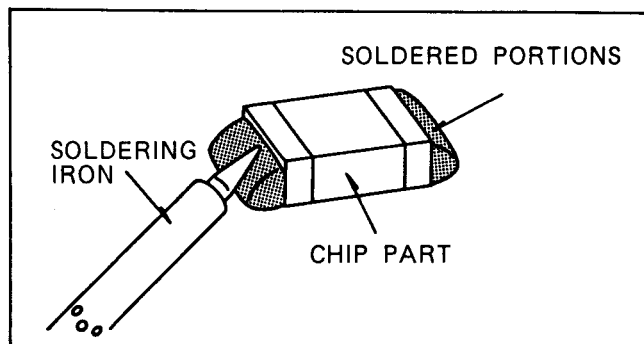


FIG. G1

Note: Regarding intermittent faults
The main causes of these faults are poor soldering and cracked chip parts.

1-2. HOW TO REPLACE THE CHIP PART

1) REMOVAL (RESISTOR, CAPACITOR, etc...)

- (1) Presolder the one side of soldering portion for chip part and grasp the chip part by tweezers.
- (2) Melt the presoldered portion. And then remove the chip part with a twisting motion while melting the soldering portion of another side quickly.

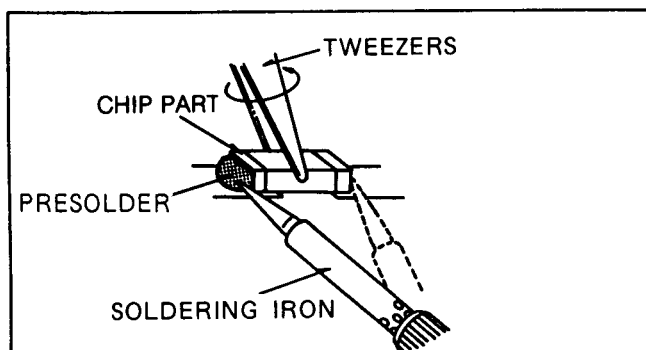


FIG. G2

2) REMOVAL (transistor, diode, etc...)

- (1) Grasp the chip part with tweezers and melt the solder of one lead.

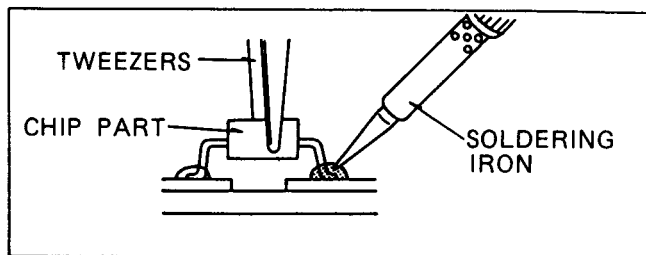


FIG. G3

- (2) Lift the side of that lead upward.

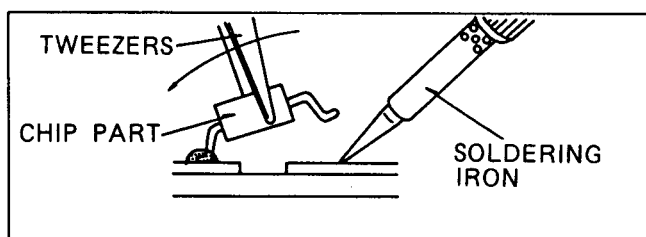


FIG. G4

Caution: Do not lift the chip part too high as damage may occur to the PCB or the leads that are still soldered on the PCB.

- (3) Simultaneously heat the solder of the two remaining leads and lift part to remove.

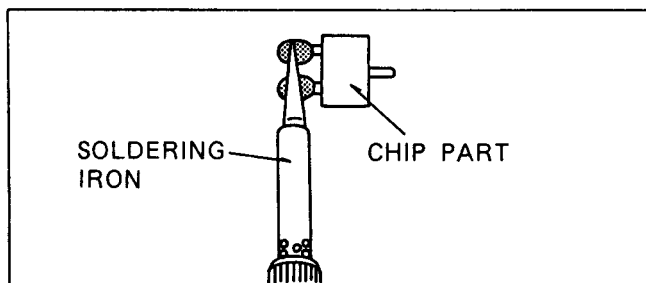


FIG. G5

3) INSTALLATION

- (1) Presolder the one side of contact point on the circuit board.

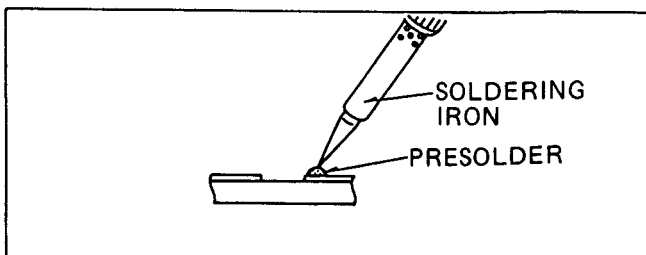


FIG. G6

- (2) To install the chip part, hold in position using tweezers, apply heat to the pre-soldered portions using a fine tip soldering iron.
- (3) Solder the other side of the chip part.
- (4) Check your soldering.

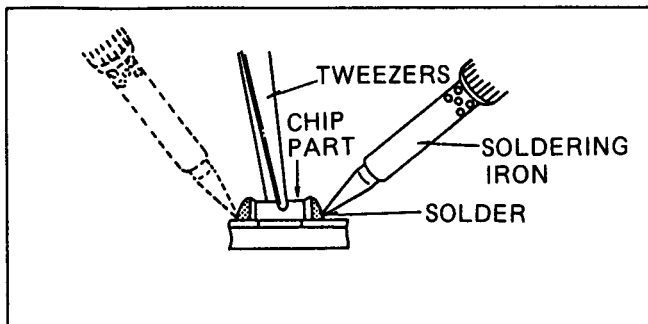


FIG. G7

1-3. HOW TO REMOVE THE FLAT-IC

(WITH HOT-AIR FLAT-IC DESOLDERING MACHINE)

(FOR EXAMPLE)

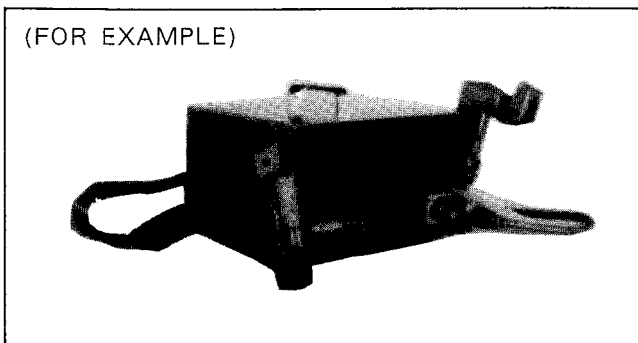


FIG. G8

- (1) Prepare the HOT-AIR FLAT-IC DESOLDERING MACHINE. And then apply hot air to FLAT-IC about 5 ~ 8 seconds.
- (2) Remove the FLAT-IC with tweezers while applying the hot air.

Caution: Do not supply the hot air to the chip parts around the Flat-IC for long time as damage may occur to the chip parts around the Flat-IC.

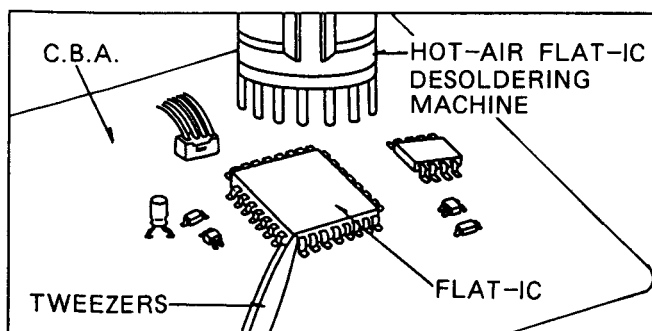


FIG. G9

(WITH SOLDERING IRON)

- (1) Using solder braid remove the solder from all pins of the Flat-IC. When you use the solder flux which is applied to all pins of the Flat-IC, you can remove it easily.

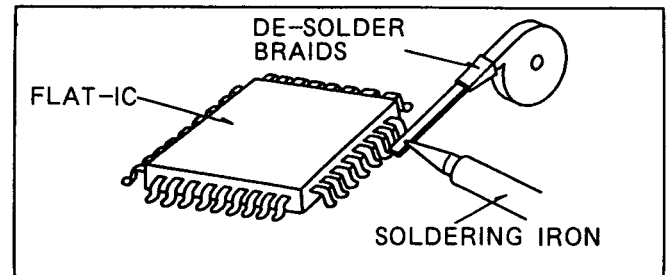


FIG. G10

- (2) Lift each lead of the Flat-IC upward one by one using a sharp pin or non solder wire (iron wire), while heating the pins using a fine tip soldering iron or a hot air blower.

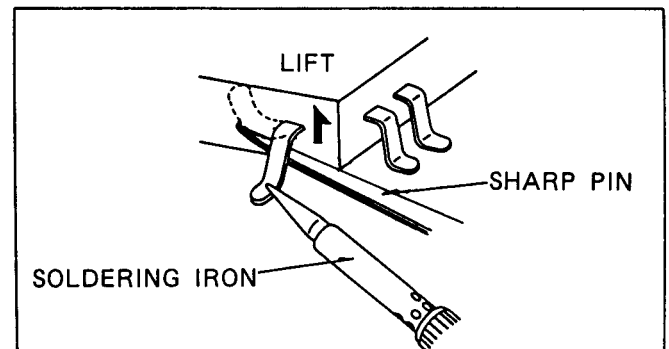


FIG. G11

(WITH IRON WIRE)

- (1) Affix the wire to workbench or solid mounting point as shown in FIG. G12.
- (2) Pull up wire as the solder melts so as to lift the IC lead from the PCB contact pad, while heating the pins using a fine tip soldering iron or hot air blower.

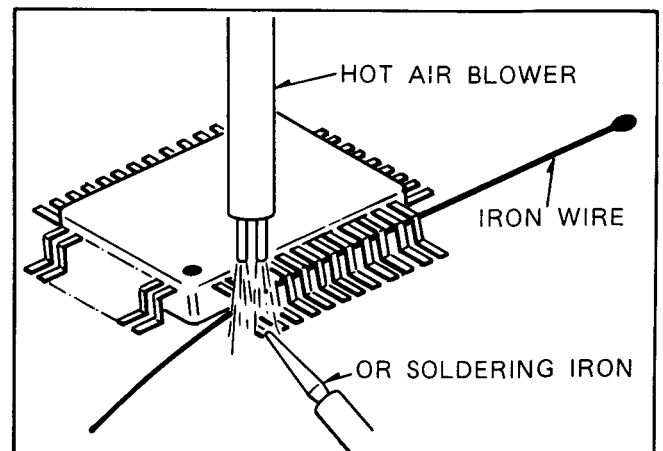


FIG. G12

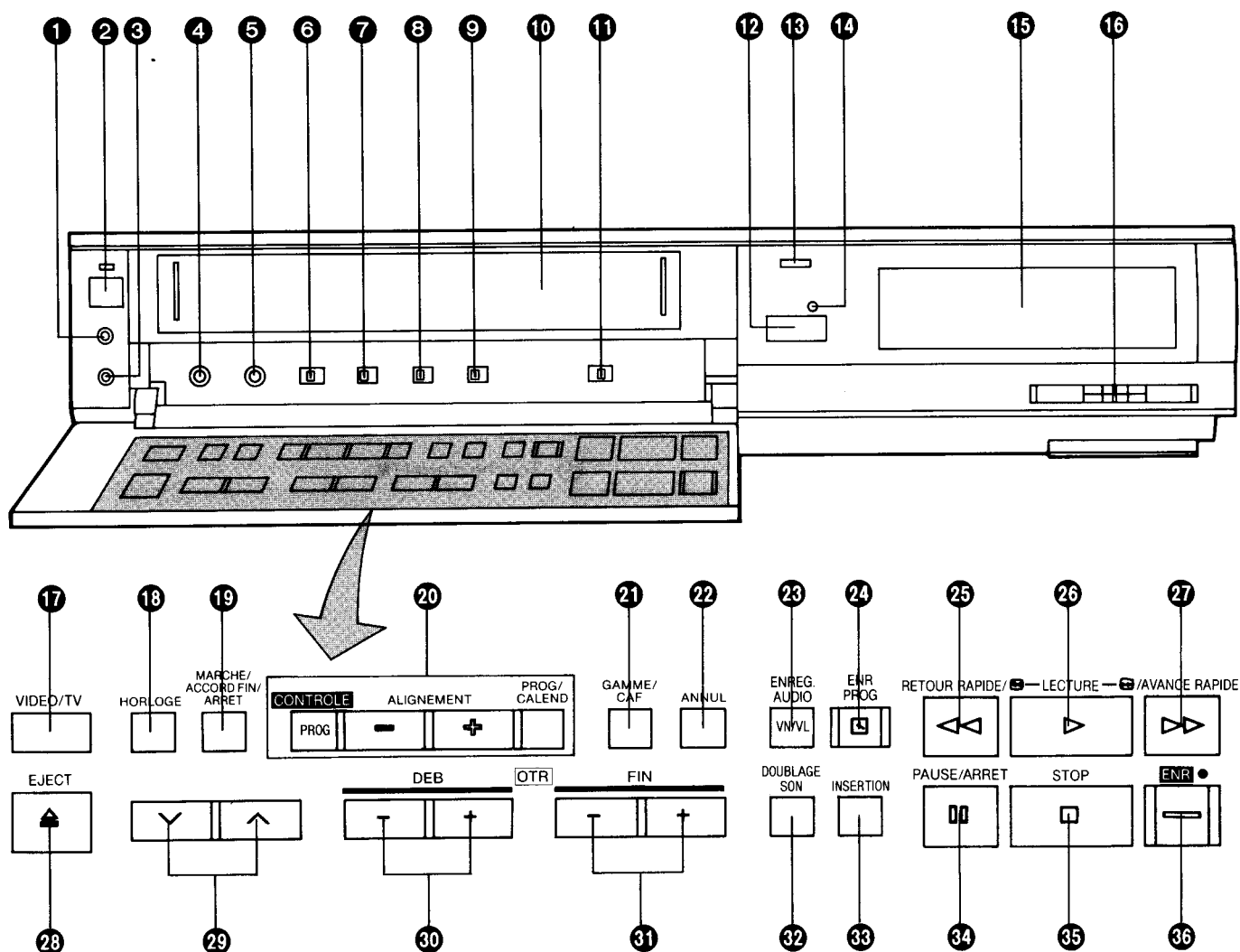
Note: When using a soldering iron care must be taken to ensure that the Flat IC is not being held by glue before it is the PCB may be damaged if force is used.

SECTION 1

GENERAL DESCRIPTIONS

1-1. CONTROLS AND COMPONENTS

PANNEAU FRONTAL



① Prise d'entrée microphone (MIC)

② Interrupteur de marche/arrêt du magnétoscope avec témoin

③ Prise d'écouteurs (CASQUE)

④ Commande de niveau des écouteurs

⑤ Commande de netteté de l'image

⑥ Sélecteur filtre de bruits/de netteté des détails

⑦ Interrupteur du filtre MPX

⑧ Interrupteur de son haute fidélité et de son normal mélangés

⑨ Sélecteur Audio-Vidéo

⑩ Compartiment de la cassette

⑪ Sélecteur de la source du signal d'entrée

⑫ Fenêtre de réception de la télécommande à infrarouge

⑬ Touche d'ouverture du panneau des commandes (APPUYER POUR OUVRIR)

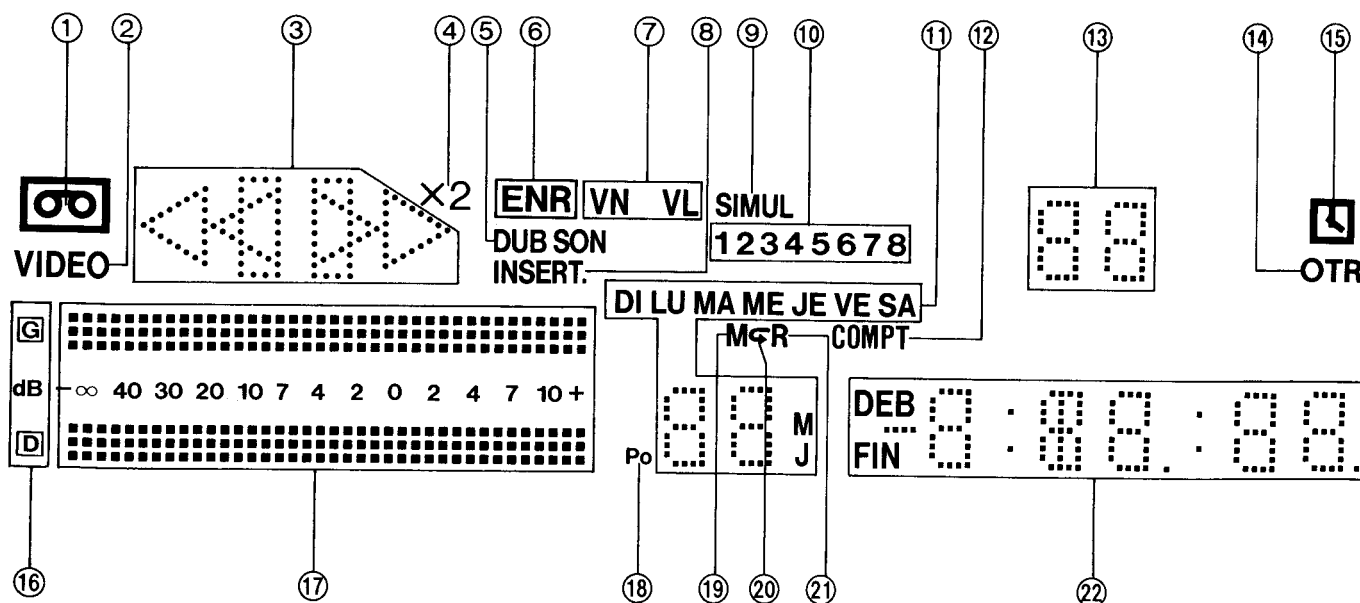
- 14 Indicateur d'alignement numérique
- 15 Affichage multi-fonctions
- 16 Commandes du niveau d'enregistrement haute fidélité
- 17 Sélecteur VIDEO/TV
- 18 Touche de l'horloge (HORLOGE)
- 19 Sélecteur "Marche/Accord Fin/Arrêt"

VHF		UHF
I	III	U
2-4	B-Q	21-69

- 20 Commandes du programmeur
- 21 Sélecteur "Gamme/CAF"
- 22 Touche d'annulation (ANNUL)
- 23 Sélecteur de vitesse de la bande (ENREGISTREMENT)

- 24 Touche d'enregistrement par programmeur (ENR PROG)
- 25 Touche de rebobinage ◀◀/repérage avant (RETOUR RAPIDE)
- 26 Touche de lecture (▶)
- 27 Touche d'avance rapide ▶▶/repérage avant (AVANCE RAPIDE)
- 28 Touche d'éjection (▲)
- 29 Touches de canal "haut" et "bas"
- 30 Touche de marche OTR (DEB)
- 31 Touches d'arrêt OTR (FIN)
- 32 Touche de postsynchronisation audio (DOUBLAGE SON)
- 33 Touche de montage par insertion
- 34 Touche de pause/arrêt sur image (■)
- 35 Touche d'arrêt (■)
- 36 Touche d'enregistrement (ENR ●)

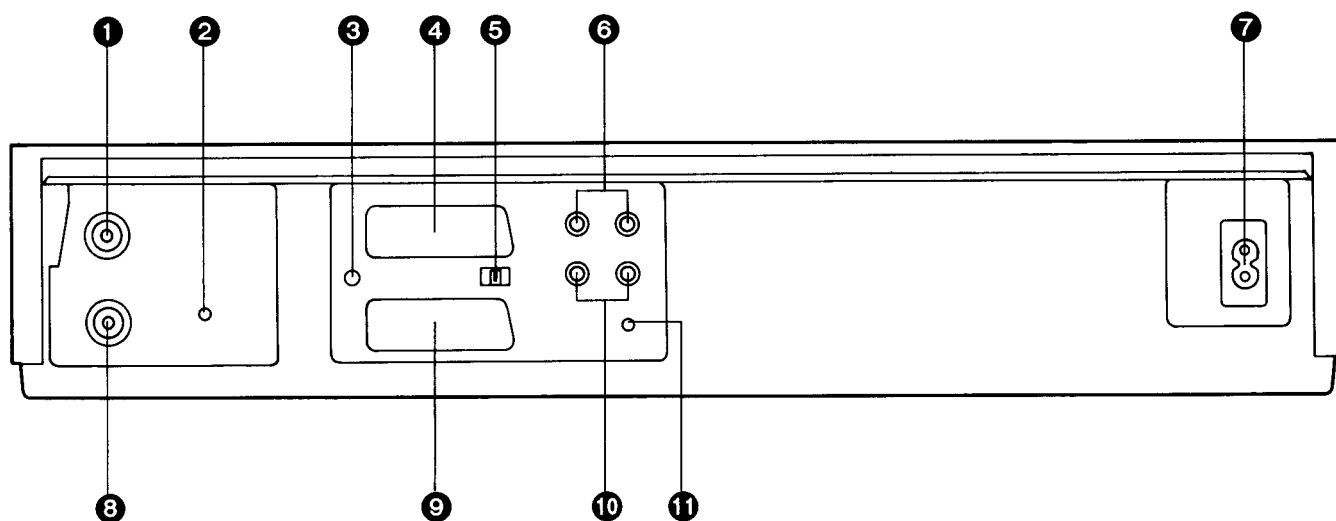
Affichage multi-fonctions



- 1 Indicateur de présence de cassette
- 2 Indicateur VIDEO
- 3 Affichage du défilement de la bande
- 4 Témoin de lecture à vitesse double
- 5 Indicateur de postsynchronisation audio (DOUBLAGE SON)
- 6 Indicateur d'enregistrement
- 7 Indicateur de vitesse de la bande

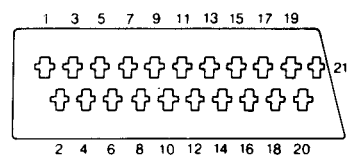
- ⑧ Indicateur de montage par insertion
- ⑨ Indicateur de réception en "Simulcast"
- ⑩ Numéro d'enregistrement par programmeur
- ⑪ Affichage de la date
- ⑫ Indicateur de mode compteur
- ⑬ Affichage des canaux
- ⑭ Indicateur OTR
- ⑮ Indicateur d'enregistrement par programmeur
- ⑯ Indicateurs de mode sortie audio
- ⑰ Indicateur du niveau audio
- ⑱ Indicateur de numéro de canal
- ⑲ Indicateur de mémoire
- ⑳ Indicateur de répétition
- ㉑ Indicateur de recherche
- ㉒ Indicateur du Compteur de bande

PANNEAU ARRIERE



- ① Prise de sortie HF (SORTIE ANT)
- ② Sélecteur du canal de lecture vidéo (C•TV)
- ③ Commandes de verrouillage vertical de l'image
- ④ Prise AV (TV)
- ⑤ Interrupteur de mode couleur/signal d'essai (COULEUR/TEST SIGNAL)
- ⑥ Prise d'entrée audio (ENT AUDIO)
- ⑦ Prise du cordon d'alimentation secteur (SECTEUR~)
- ⑧ Prise d'entrée HF (ENT ANT)
- ⑨ Prise AV (C. +)
- ⑩ Prises de sortie audio (SORTIE AUDIO)
- ⑪ Prise pour montage synchronisé (SYNCHRO MONTAGE)

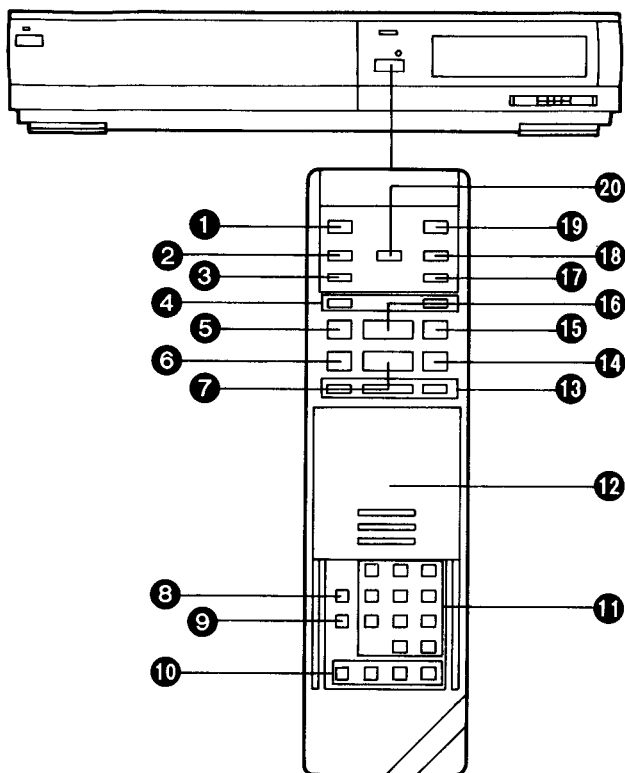
④ ⑨ Connexions de la prise AV



NOR

- | | |
|--------------------------|-------------------|
| 1 SORTIE AUDIO | 11 Sans connexion |
| CANAL 2 (D) | 12 Sans connexion |
| 2 ENTREE AUDIO | 13 TERRE |
| CANAL 2 (D) | 14 TERRE |
| 3 SORTIE AUDIO | 15 Sans connexion |
| CANAL 1 (G) | 16 Sans connexion |
| 4 AUDIO TERRE | 17 TERRE VIDEO |
| 5 TERRE | 18 TERRE |
| 6 ENTREE AUDIO | 19 SORTIE VIDEO |
| CANAL 1 (G) | 20 ENTREE VIDEO |
| 7 Sans connexion | 21 TERRE |
| 8 Tension de commutation | |
| 9 TERRE | |
| 10 Sans connexion | |

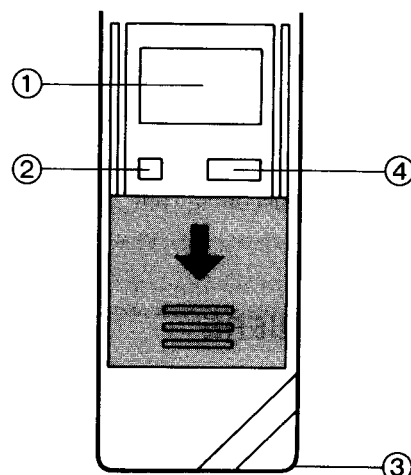
1-2. INFRA-RED REMOTE CONTROLLER



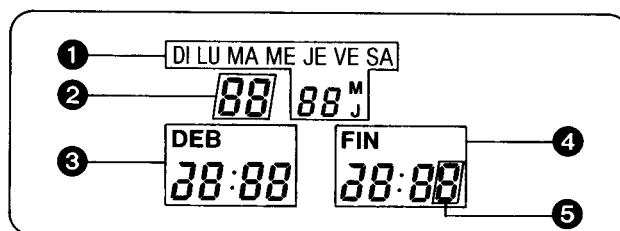
- ❶ Interrupteur marche/arrêt du magnétoscope (VIDEO)
- ❷ Sélecteur horloge/compteur
- ❸ Sélecteur de sortie audio (SELECT. AUDIO)
- ❹ Touches d'enregistrement (●)
- ❺ Touche de pause/arrêt sur image (II)
- ❻ Touche de rebobinage ◀◀/repérage arrière (◀◀) (RETOUR RAPIDE/◀◀)
- ❼ Touche de lecture
- ❽ Touche de recherche du temps d'enregistrement (RECHERCHE HORAIRE)
- ❾ Touche de contrôle
- ❿ Touches de lecture automatique
- ⓫ Touches de sélection des canaux
- ⓬ Couvercle du sélecteur de mode
- ⓭ Touches de recherche
- ⓮ Touche d'avance rapide ▶▶/repérage avant (▶▶) (AVANCE RAPIDE)
- ⓯ Touche d'avance image par image (III) (AVANCE IMAGE)
- ⓰ Touche d'arrêt (■)
- ⓱ Touche de lecture en sens inverse
- Ⓜ Touche de mémoire/répétition/recherche
- Ⓜ Sélecteur Vidéo/TV (VIDEO/TV)
- Ⓜ Touche de remise à zéro/index

Utilisation de la télécommande comme lecture numérique

Faire glisser le couvercle du sélecteur de mode vers le bas.



❶ Affichage du lecteur des codes à barres



- ❶ Indication de la date
- ❷ Indication du numéro de canal
- ❸ Indication de l'heure de démarrage
- ❹ Indication de l'heure d'arrêt
- ❺ Indicateur de contrôle

- ❷ Interrupteur marche/arrêt du lecteur numérique
- ❸ Section de lecture des codes à barres
- ❹ Touche de transmission

Note:

Appuyer sur l'interrupteur marche/arrêt du lecteur numérique pour utiliser la télécommande dans les fonctions de télécommande (Les indications de l'affichage à cristaux liquides disparaîtront).

SECTION 2

ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flowchart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing. When reassembling, perform the steps in the reverse order.

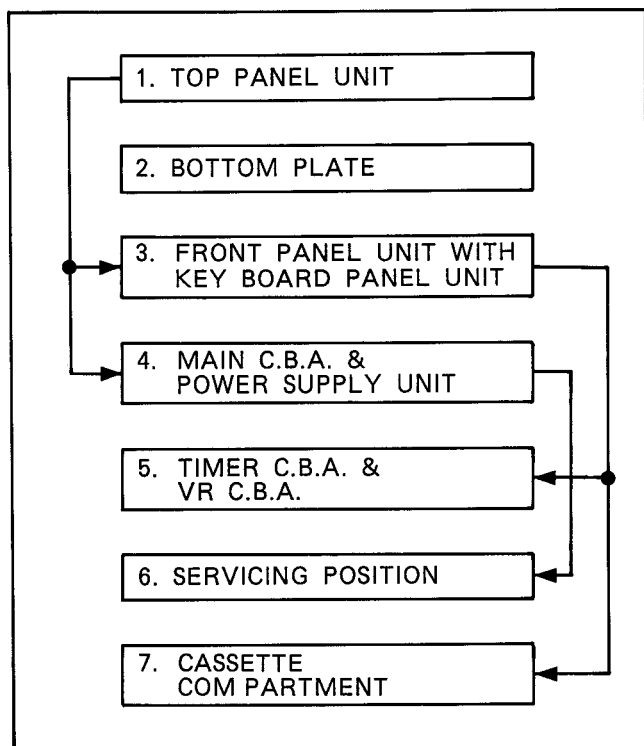


Fig. D1

2-1-2. DETAIL OF DISASSEMBLE METHOD

1. REMOVAL OF THE TOP PANEL UNIT

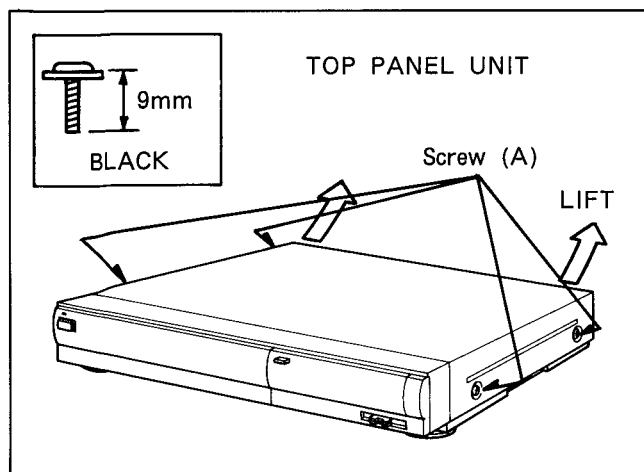


Fig. D2

Remove...4 Screws (A)

2. REMOVAL OF THE BOTTOM PLATE

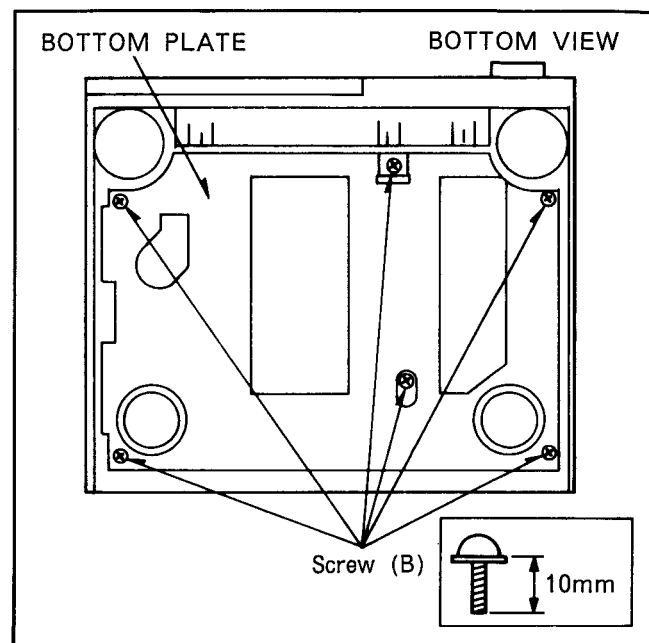


Fig. D3

Remove...6 Screws (B)

3. REMOVAL OF THE FRONT PANEL UNIT WITH KEY BOARD PANEL UNIT

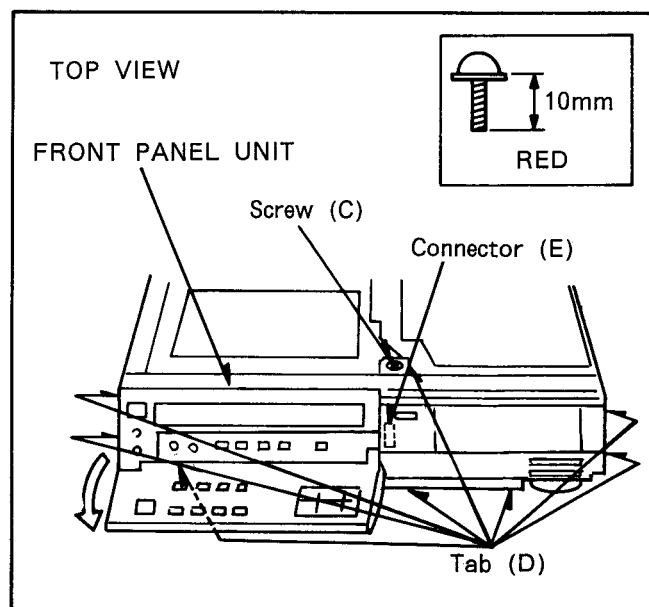


Fig. D4

Remove...Screw (C)
Unlock...8 Tabs (D)
Disconnect...Connector (E)

4. REMOVAL OF THE MAIN C.B.A. AND POWER SUPPLY UNIT

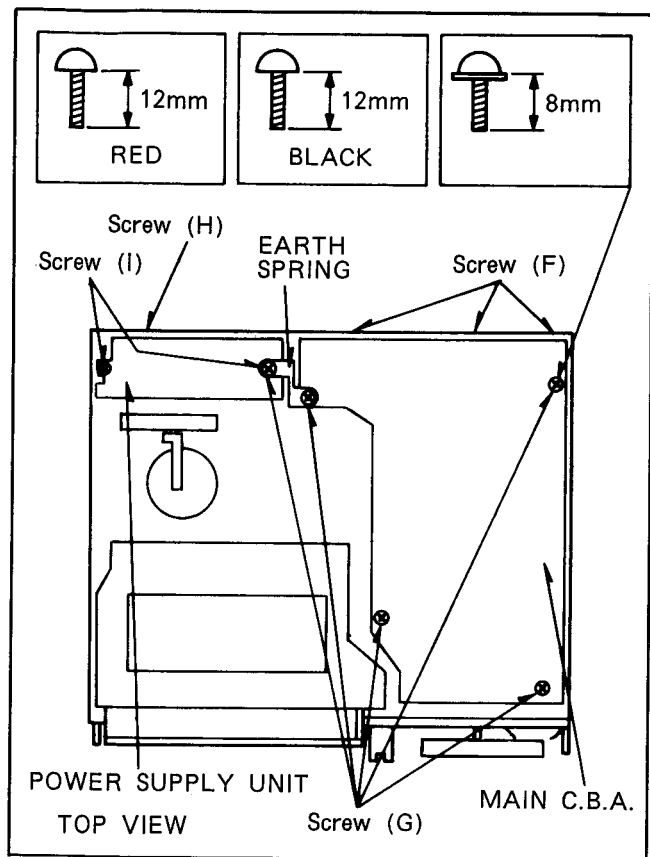


Fig. D5

REMOVAL OF THE MAIN C.B.A.

Remove... 3 Screws (F), 5 Screws (G) and EARTH SPRING

REMOVAL OF THE POWER SUPPLY UNIT

Remove...Screw (H), 2 Screws (I) and EARTH SPRING

REMOVAL OF THE VR C.B.A.

Remove...2 Screws (J)
Unlock...2 Tabs (K)

REMOVAL OF THE TIMER C.B.A.

Remove...2 Screws (L)
Unlock...Tab (M)

6. SERVICING

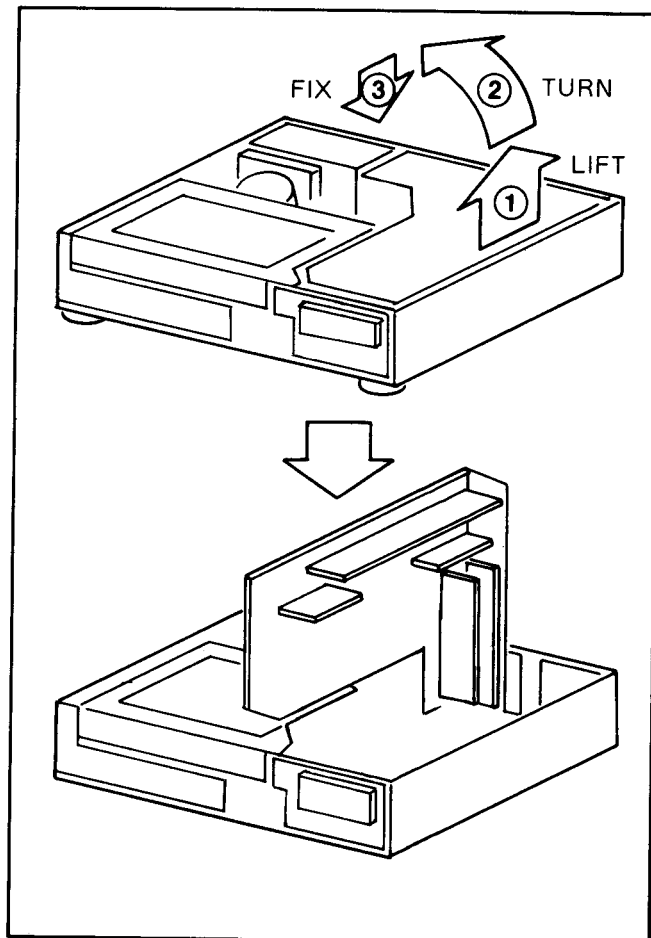


Fig. D7

5. REMOVAL OF THE VR C.B.A. and TIMER C.B.A.

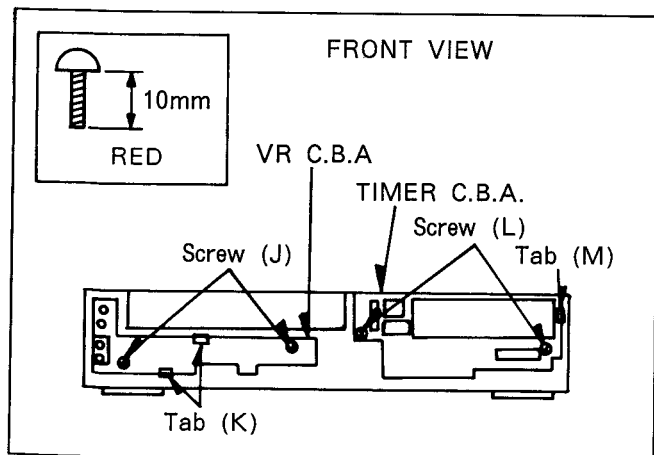


Fig. D6

7. REMOVAL OF THE CASSETTE COMPARTMENT

Remove 2 screws (N) and slide the cassette holder until appearing 2 screws (O) by turning (clockwise) the capstan rotor unit (located in the bottom side) and then remove 2 screws (O). Remove the flexible wire from connector P1503 mounted on Take-up photo Tr. C.B.A., then carefully pull out the cassette compartment.

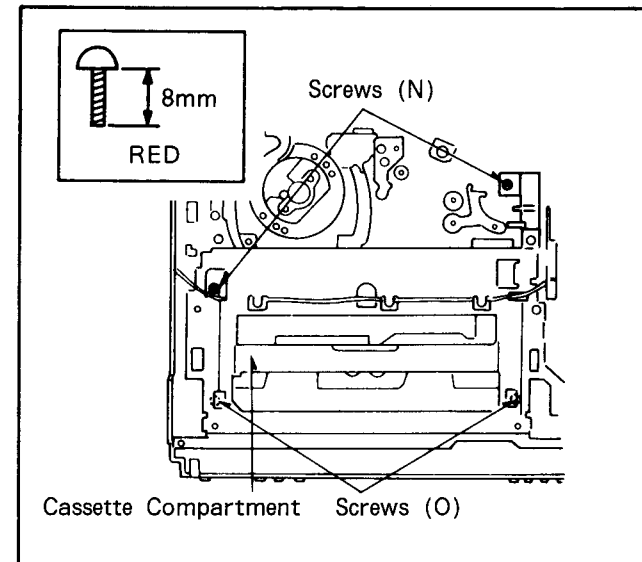


Fig. D8

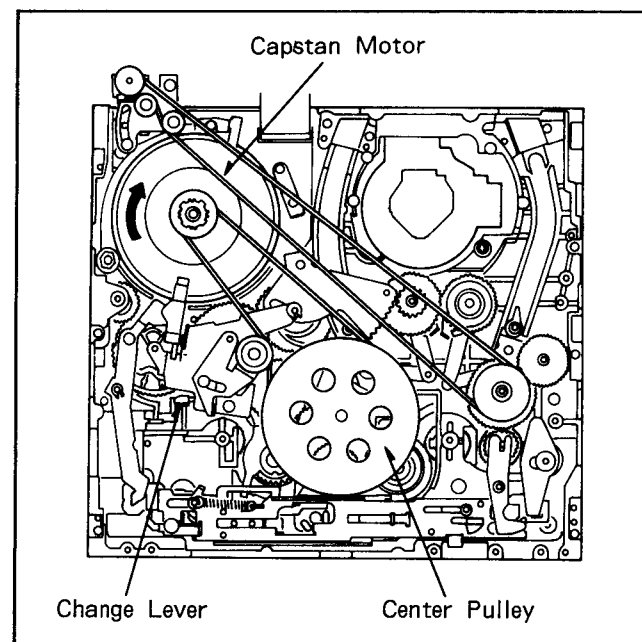


Fig. D9

2-1-3. How to open the Remote Control Unit

1. Removal of the sensor cap.

Turn the sensor cap counterclockwise (90 degrees) and pull the sensor cap to remove as shown in Fig D10.

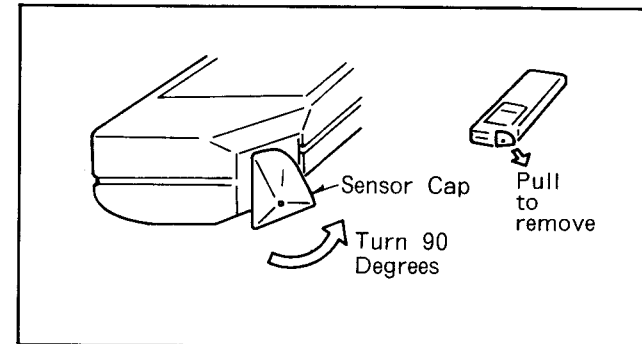


Fig.D10

2. Removal of the Battery Cover

Press the part of battery cover indicated by the arrow and lift off the cover. Then take out batteries.

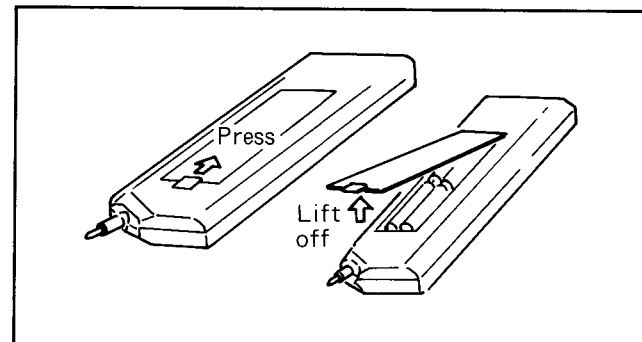


Fig.D11

3. Removal of the bottom case.

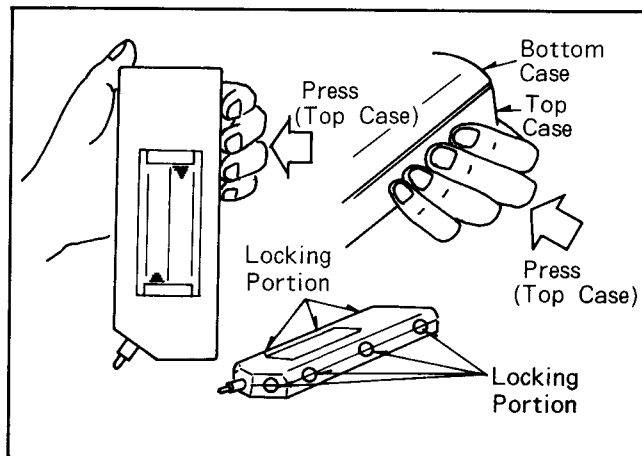


Fig.D12

Press the side of Top case with left hand as shown in Fig.D12 by big force so that the top case is bending. Then insert your finger of right hand to gap between top case and bottom case while keep pressing by your left hand as shown in Fig.D13.

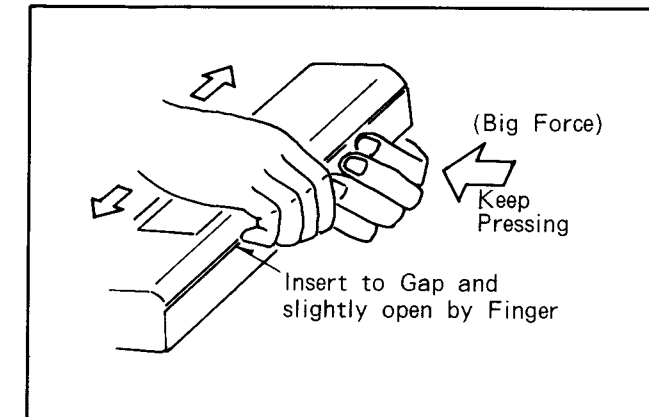


Fig.D13

First slightly open the bottom case by your inserted right hand and move your right hand to extend the open portion. When unlock the 3 locking portion (refer to Fig.D12), the bottom case is removed easily. If you can not open, please try opposite side with same way.

4. Removal of the sensor C.B.A.

Remove 2 screws as shown in Fig.D14.

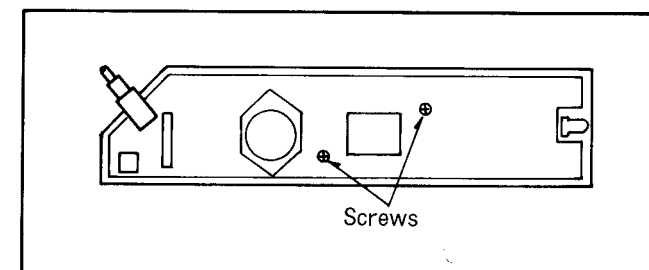
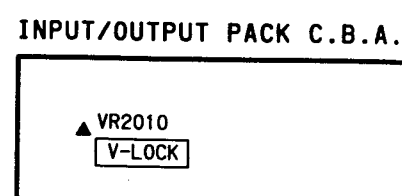
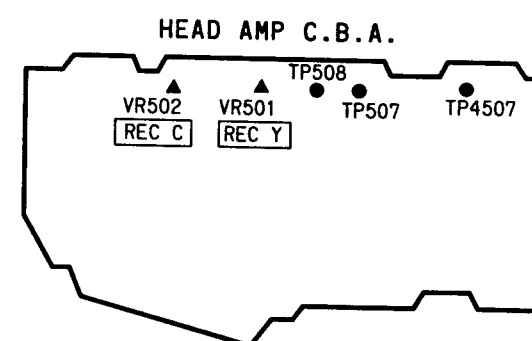
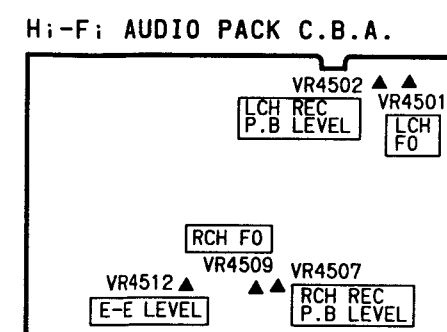
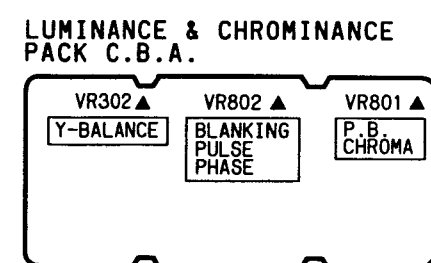
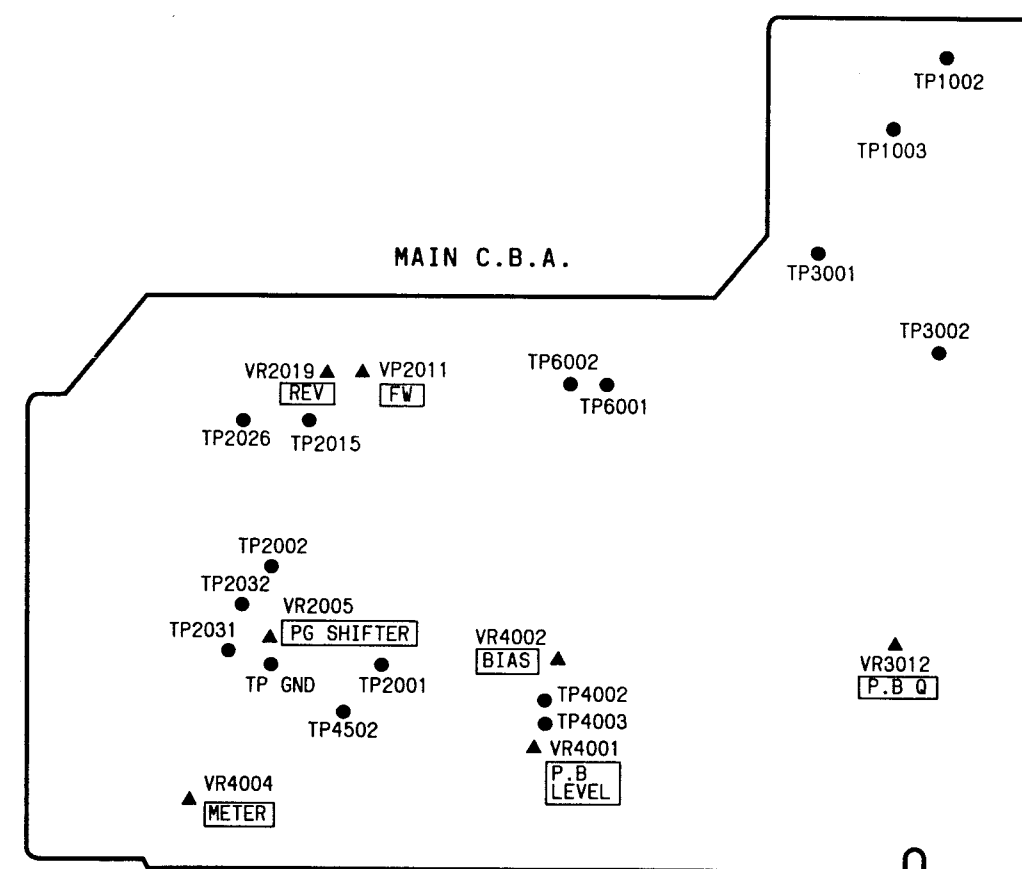


Fig.D14

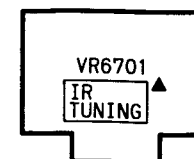
2-2. MECHANICAL ADJUSTMENT PROCEDURES

This Mechanical chassis is the same as G-II Mechanical chassis. Therefore please refer to the service Manual "G-II/G-REV" (Order NO. VRD8901M101).

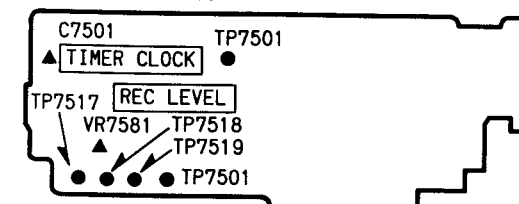
LOCATION OF TEST POINTS & CONTROLS



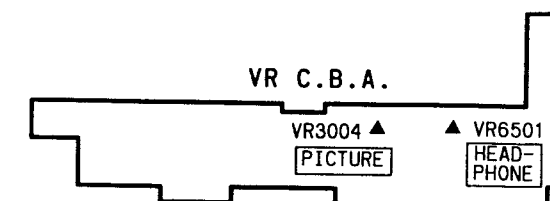
IR RECEIVER C.B.A.



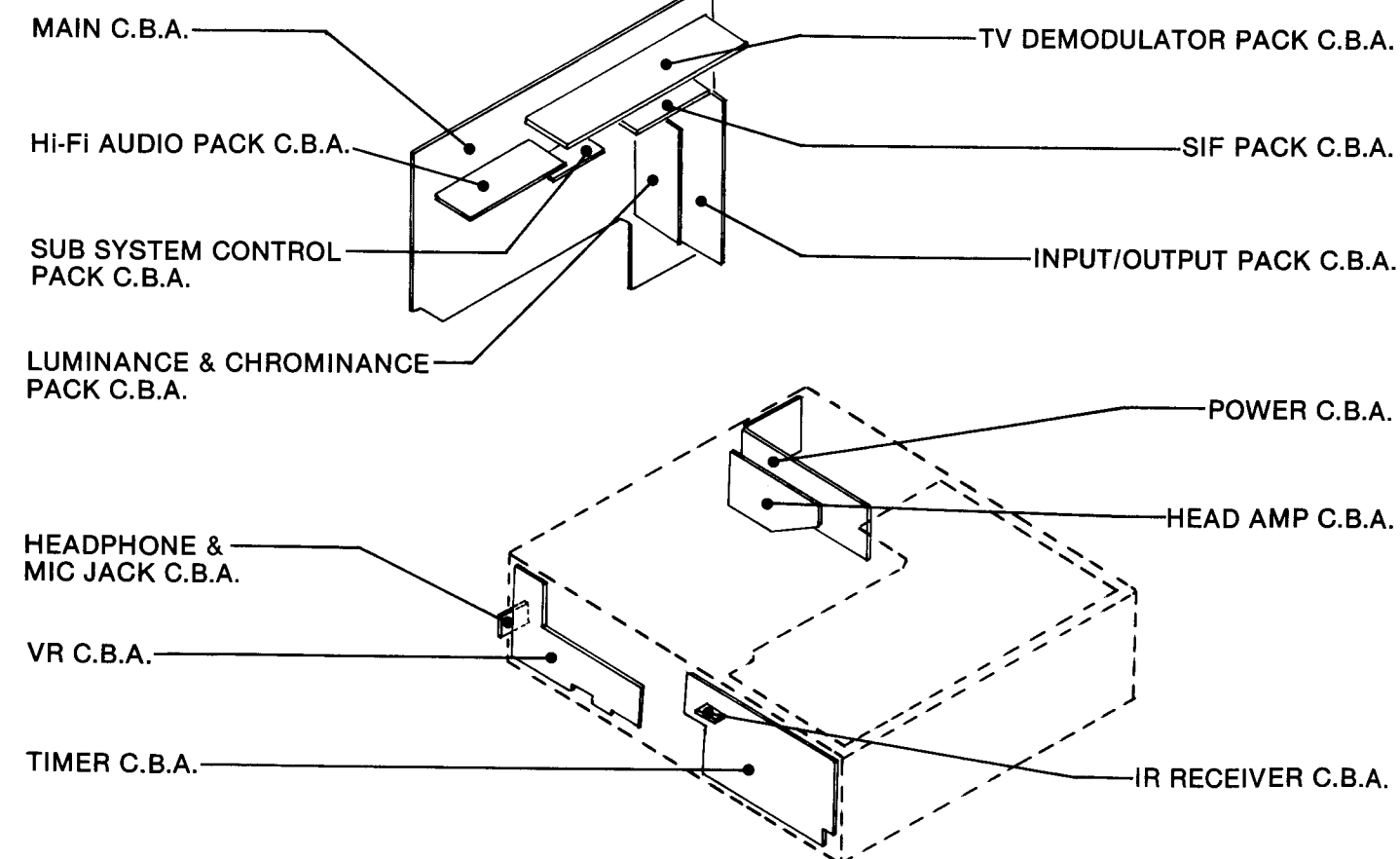
TIMER C.B.A.



VR C.B.A.



CIRCUIT BOARD LAYOUT



2-3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorder.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) and DVM (Digital Volt Meter)
Voltage Range: 0.001~50V
2. Dual-Trace Oscilloscope
Voltage range: 0.005~50V/div.
Frequency Range: DC~30MHz
Probes: 10:1
3. Frequency counter
Frequency Range: 0~10MHz
4. Signal Generator (Sinewave)
Frequency Range: 0~500KHz
5. Video Sweep Generator
Frequency Range: 0~10MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)
9. Pattern Generator

2-3-2. HOW TO READ THE ADJUSTMENT PROCEDURES

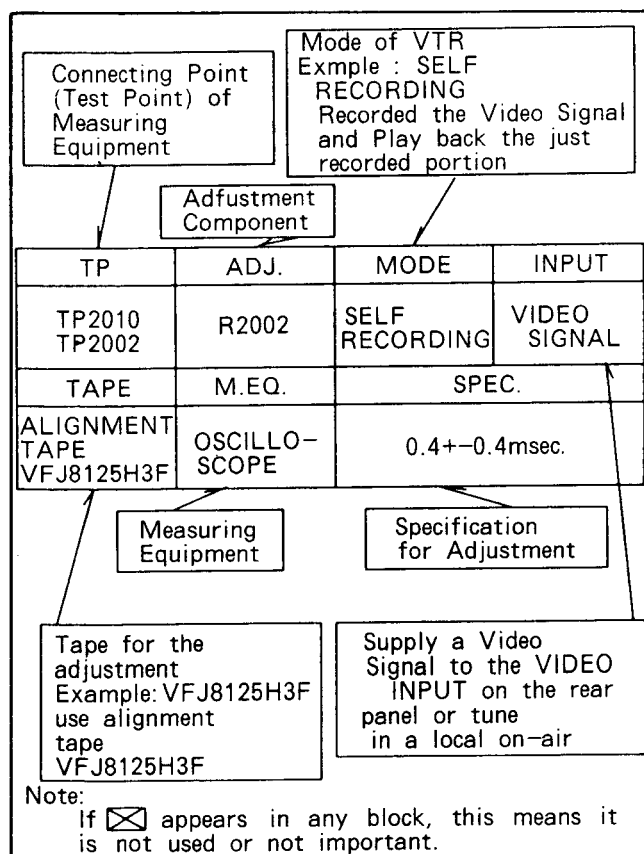


Fig. E1

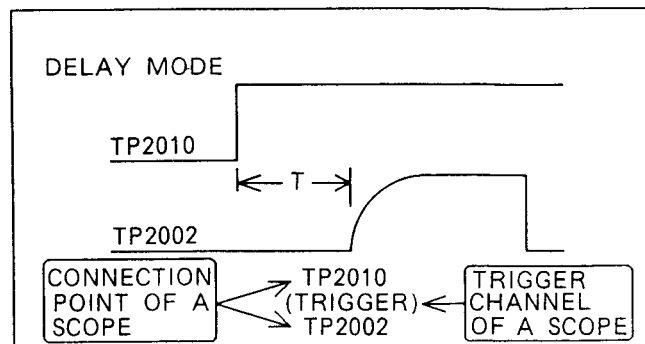


Fig. E2

Note:

Before the electrical adjustment, set the VTR as following conditions except for especial instructions in each adjustment item.

1. Picture sharpness VR ... Centre FIX position
2. Tape Speed Selector ... SP position
3. Audio Rec Control VR ... Centre FIX position
4. MPX Filter Switch ... OFF position
5. Input Signal Selector ... AV position
6. Edit Switch ... OFF position

SERVO Section

2-3-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAY BACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLOSCOPE	7.0+-0.5 (H)	

1. Connect the Oscilloscope to TP2001 and TP3002.
2. Playback the VHS Alignment Tape (VFJ8125H3F).
3. Adjust VR2001 so that the phase difference becomes 7.0+-0.5 (H) as shown in Fig. E3.

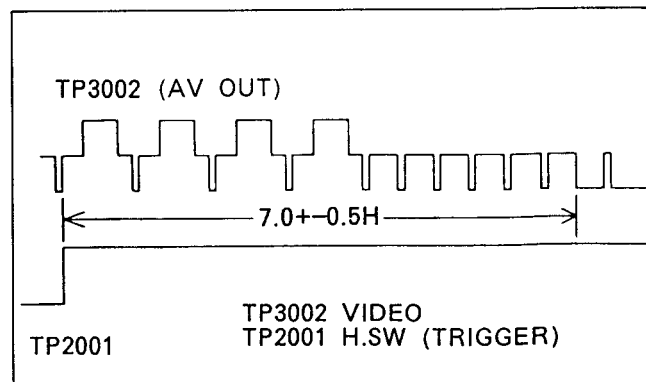


Fig. E3

2-3-4. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2010(SP)	STILL	VIDEO SIGNAL
TAPE	M. EQ.	SPEC.	
BLANK TAPE	MONITOR	NO V-DANCING	

1. Record the Video Signal in SP Mode and playback the just recorded portion. Then place the unit in STILL Mode.
2. Adjust VR2010 so that the V-Dancing does not appear on the Monitor Screen.

2-3-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 IC2001-2	VR2011(SP)	SLOW	COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	$T=20\pm 20(\text{msec})$	

Connect the Oscilloscope to TP2002 and IC2001-2.

1. Record the Colour Bar in SP Mode and playback the just recorded portion. Then place the Unit in 1/5 Speed Slow by Infra-red remote controller. (Press **SEARCH** button and then press **+** button 5 times)
2. Adjust VR2011 so that the phase difference becomes $20\pm 20(\text{msec})$ as shown in Fig. E4.

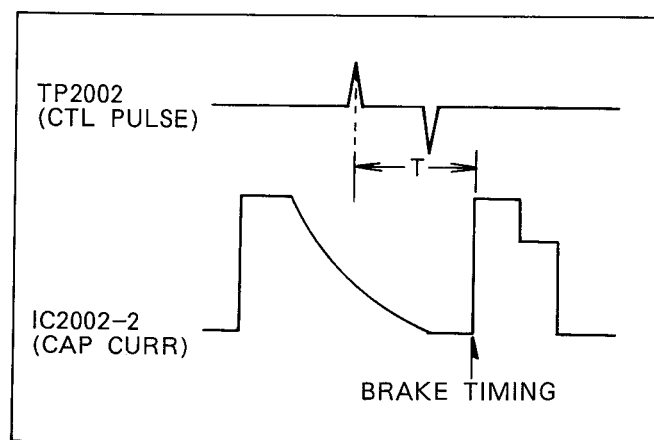


Fig. E4

2-3-6. REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2002 IC2001-2	VR2019(SP)	SLOW	COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	$T=3\pm 2(\text{msec})$	

Connect the Oscilloscope to TP2002 and IC2001-2

1. Record the Colour Bar in SP Mode and playback the just recorded portion. Then place the Unit in 1/5 Reverse Slow Mode by Infra-red remote controller. (Press **SEARCH** button and then press **-** button 5 times)
2. Adjust VR2019 so that the phase difference becomes $3\pm 2(\text{msec})$ as shown in Fig. E5.

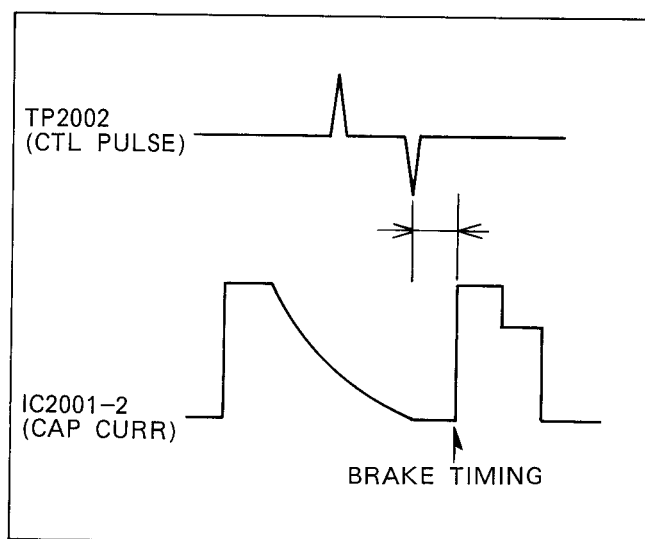


Fig. E5

LUMINANCE, CHROMINANCE & HEAD AMP Section

2-3-7. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR501 (Y) VR502 (C)	RECORDING (SP MODE)	COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	$28\pm 2(\text{mVp-p})(\text{C})$ $105\pm 5(\text{mVp-p})(\text{Y})$	

1. Record the Colour Bar in SP Mode.
2. Connect the Oscilloscope to TP507 (HOT) and TP508 (GND).
3. Turn VR501 so that luminance recording current signal becomes closed. (means minimum waveform)
4. Adjust VR502 so that the Chrominance recording current becomes 28 ± 2 (mVp-p) as shown in Fig. E6.
5. Next, adjust VR501 so that Luminance Recording current becomes 105 ± 5 (mVp-p) as shown in Fig. E7.

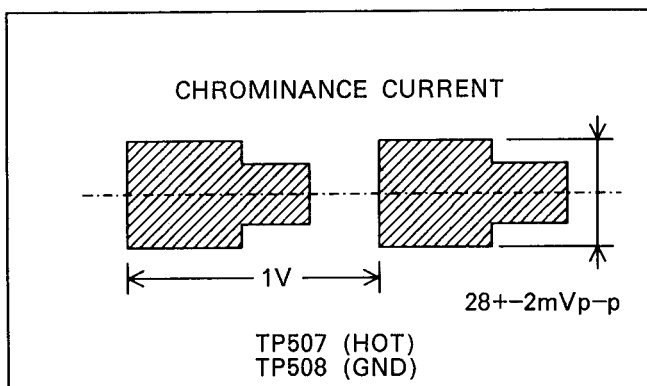


Fig. E6

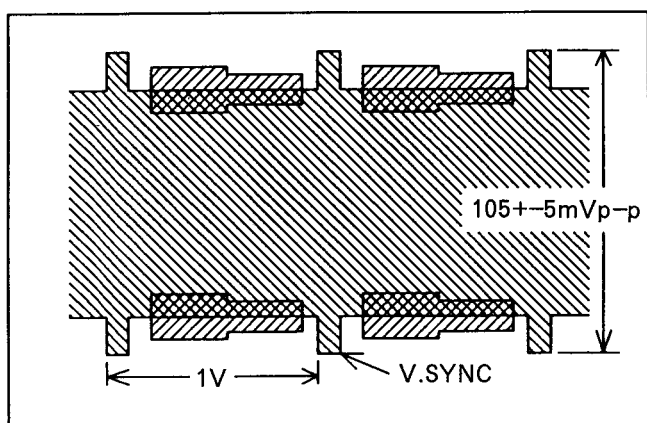


Fig. E7

2-3-8. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
AV OUT (TP3002)	VR3012	SELF RECORDING AND PLAYBACK	VIDEO SWEEP SIGNAL
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE/VIDEO SWEEP GENERATOR	B/A = -2 ± 1 (dB) (70~90%)	

1. Set the Video Sweep Generator output as shown in Fig. E8.

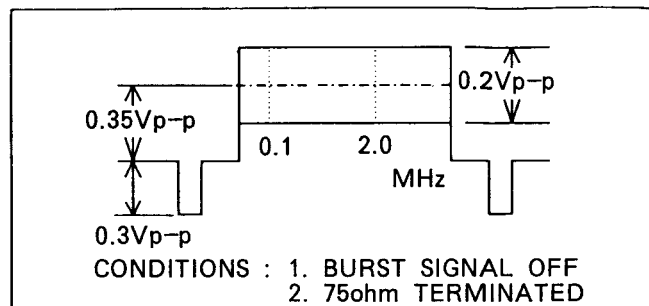


Fig. E8

2. Record the Video Sweep Signal in SP Mode and playback just recorded portion.
3. Set the Tracking control to Fix position.
4. Adjust VR3012 so that the Frequency Response becomes $B/A = -2 \pm 1$ as shown in Fig. E9.

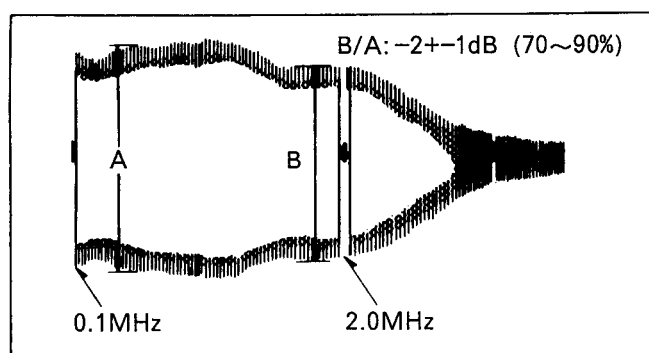


Fig. E9

2-3-9. Y-NR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
C306(+)	VR302	RECORDING	COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	WAVE-FORM IS MINIMIZED	

1. Record the Colour Bar.
2. Connect the Oscilloscope to (+) terminal of C306.
3. Adjust VR302 so that waveform becomes minimum.

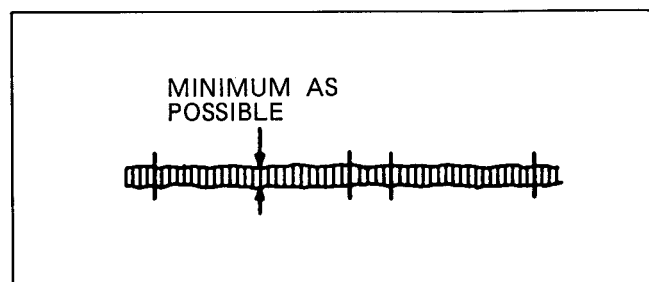


Fig. E10

2-3-10. CHROMINANCE PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AV OUT (TP3002)	VR801	SELF RECORDING AND PLAYBACK	COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	0.21+/-0.025 (Vp-p) (75ohm terminated)	

1. Record the Colour Bar and playback the just recorded portion.
2. Connect the Oscilloscope to TP3002.
3. Adjust so that the Magenta Level becomes 0.21 ± 0.025 (Vp-p) as shown in Fig. E11.

Achieve this adjustment, the unit must be terminated with 75ohm.

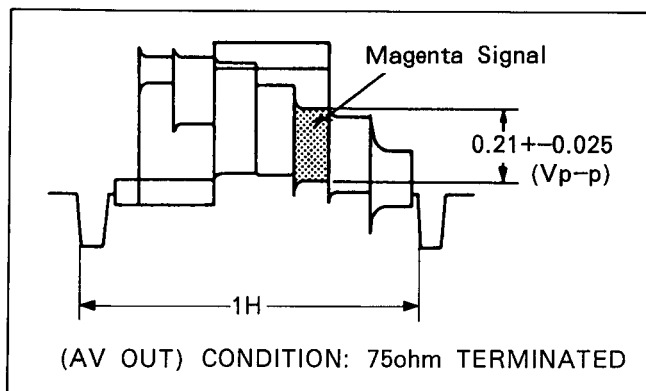


Fig.E11

2-3-11. BLANKING PULSE PHASE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002 LUMI/CHRO PACK-34	VR3002	REC	SECAM COLOUR BAR (AV IN)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLOSCOPE	T=1.2+/-0.1 (usec)	

1. Supply the video signal to AV input socket.
2. Connect the oscilloscope to TP3002 and pin 34 of Luminance & chrominance Pack.
3. Record the colour bar.
4. Adjust VR3002 so that the period of "T" becomes 1.2 ± 0.1 (usec).

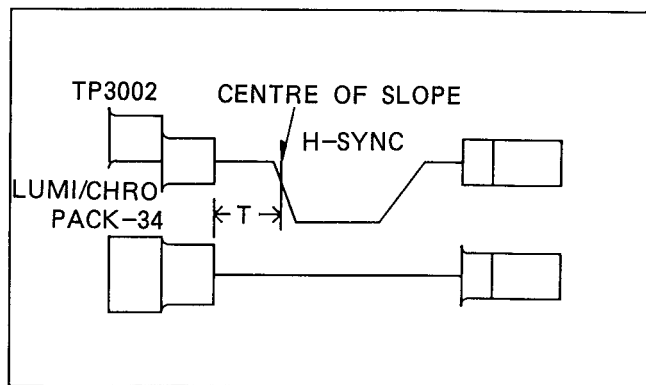


Fig. E12

2-3-12. BELL FILTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC801-8	FL807	REC	SINEWAVE (4.286MHz, 800mVp-p) (AV IN)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	SIGNAL GEN/OSCILLOSCOPE	WAVEFORM IS MAXIMIZED	

1. Connect the oscilloscope to pin 3 of Luminance & Chrominance pack.
2. Connect the signal generator to Video Line Input and set it so that the sinewave for 4.286MHz/800mVp-p is obtained at pin 3 of LUMI & CHRO pack.
3. Connect the oscilloscope to IC801-8.
4. Adjust FL807 so that the waveform is maximized.

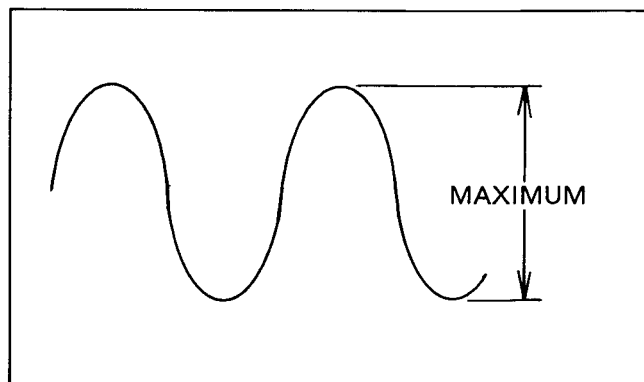


Fig.E13

NORMAL AUDIO Section

2-3-13. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (+) TP4003 (-)	VR4002	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M.	2.4+/-0.1 (mVrms)	

1. Connect the V.T.V.M. to TP4002 (+) and TP4003 (-). (Do not use long cable for Connection)
2. Make a short circuit between terminal of audio input and GND.
3. Place the Unit in Recording Mode.
4. Adjust VR4002 so that reading of V.T.V.M. becomes 2.4+/-0.1 (mVrms).

2-3-14. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AV OUT	VR4001	SELF RECORDING (SP MODE)	1kHz, -10dB AUDIO SIG/ VIDEO SIG (AV IN)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E LEVEL = -7+/-2dB (355mVrms ~ 560mVrms) PLAYBACK LEVEL = E-E LEVEL+/-0.5dB (+/-20mVrms)	

1. Set the Audio Playback Mode Selector to NORMAL position. (Both the Left and Right Indicators are not lit.)
2. Playback the just recorded portion.
3. Adjust VR4001 so that the level of the playback waveform becomes E-E level+/-0.5dB (+/-20mVrms)

Note:

1. Before this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.
2. Video signal must be connected to video input.

Hi-Fi AUDIO Section

2-3-15. AUDIO E-E LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	VR4512		1KHz, -10dB AUDIO SIG
TAPE	M. EQ.	SPEC.	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	-7+/-0.5dB (420~470mVrms)	

1. Set the Audio Playback Mode Selector to STEREO position. (Both the Left and Right Indicators are lit.)
2. Adjust VR4512 so that the audio level becomes -7+/-0.5dB (420~470mVrms).

2-3-16. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER	VR4004	STOP	1(KHz) -10(dBV) (316mVrms)
TAPE	M. EQ.	SPEC.	
	SIGNAL GEN./ V.T.V.M.	0dB INDICATOR JUST LIGHTS UP	

1. Set the Audio Out Selector (On Remote controller) for STEREO position.
2. Set the output of Signal Generator to 1(KHz), -10dBV (316mVrms) and supply it to both Audio input jacks (L) and (R).
3. Adjust VR4004 so that the 0dB of Level Meter just lights up.

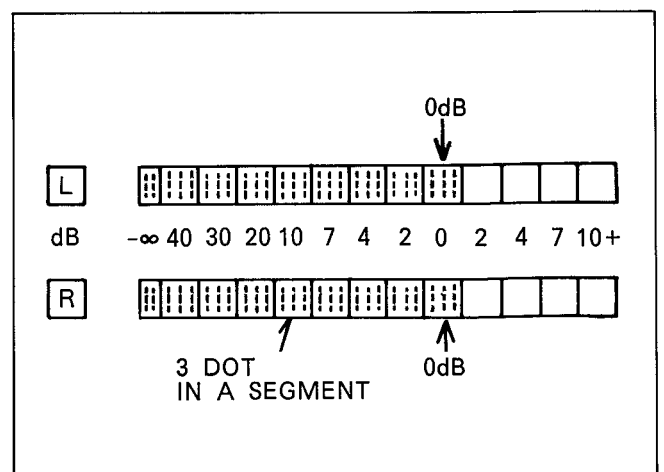


Fig. E14

2-3-17. Hi-Fi AUDIO CARRIER FREQUENCY
ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN C4566 AND R4563(L) BETWEEN C4516 AND R4513(R)	VR4501(L) VR4509(R)	STOP	
TAPE	M. EQ.	SPEC.	
	FREQUE NCY COUNTER	1400+-3KHz(L) 1800+-3KHz(R)	

TIMER Section

2-3-19. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7501	C7501	STOP	
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER	7812.5+-0.015 (usec)	

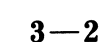
1. Connect the frequency counter to TP7501.
2. Adjust C7501 so that the reading of the frequency counter is 7812.5+-0.015 usec.

2-3-18. AUDIO DEVIATION ADJUSTMENT

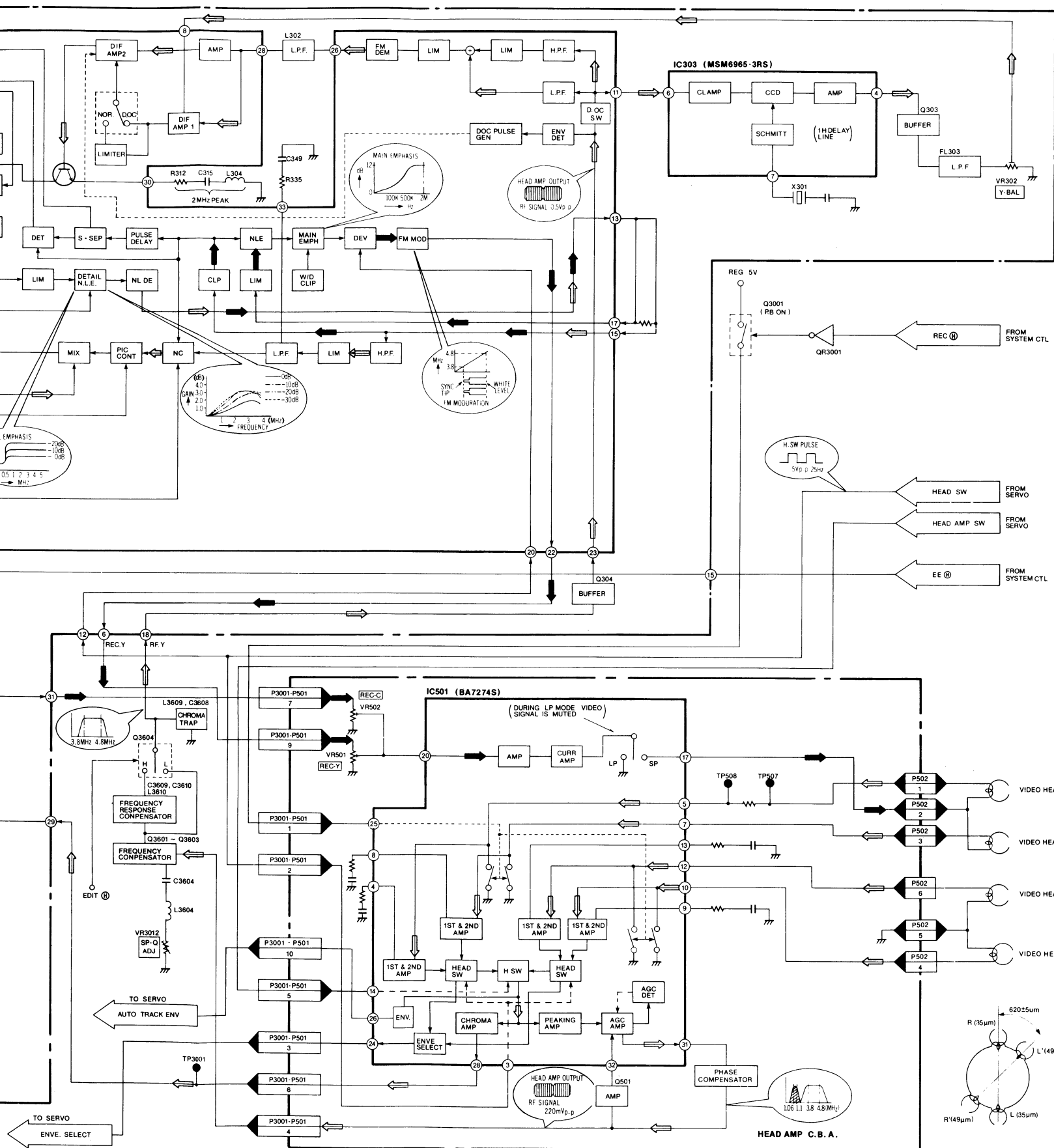
TP	ADJ.	MODE	INPUT
BETWEEN VR4502 AND R4561 (L) BETWEEN VR4507 AND R4511 (R)	VR4502(L) VR4507(R)	RECORDING	1KHz, -10dB (316mVp-p) AUDIO SIGNAL
TAPE	M. EQ.	SPEC.	
BLANK TAPE	SIGNAL GENERA TOR/ OSCILLO- SCOPE	400mVp-p	

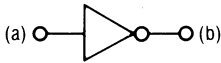
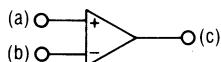
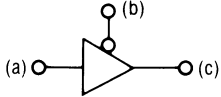
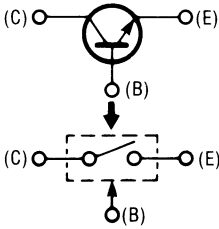
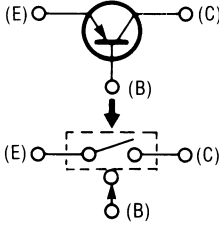
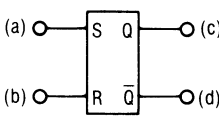
1. Set the output of the Signal generator to 1KHz and -10dB, and supply it to both input jacks (L) and (R).
Next, adjust the recording with the Audio Rec Level Controls so that the audio outputs are 400mVrms at both Output Jacks (L) and (R).
2. Adjust VR4502 to 400mVp-p at between VR4502 and R4561 on HiFi AUDIO C.B.A. for L-Channel.
3. Adjust VR4507 to 400mVp-p at between VR4507 and R4511 on HiFi AUDIO C.B.A. for R-Channel.

← MAIN SIGNAL PATH IN PLAYBACK MODE



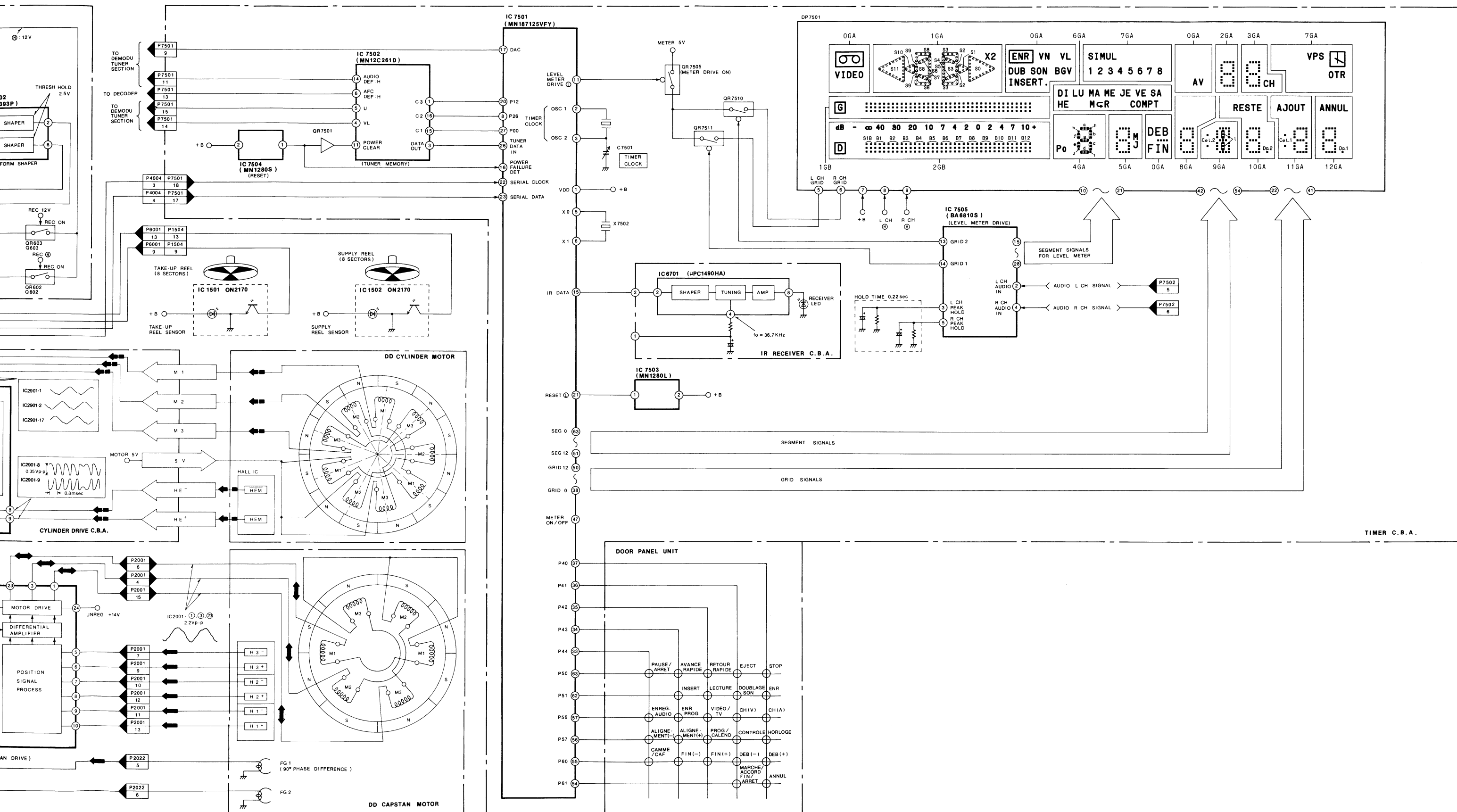
PATH IN PLAYBACK MODE



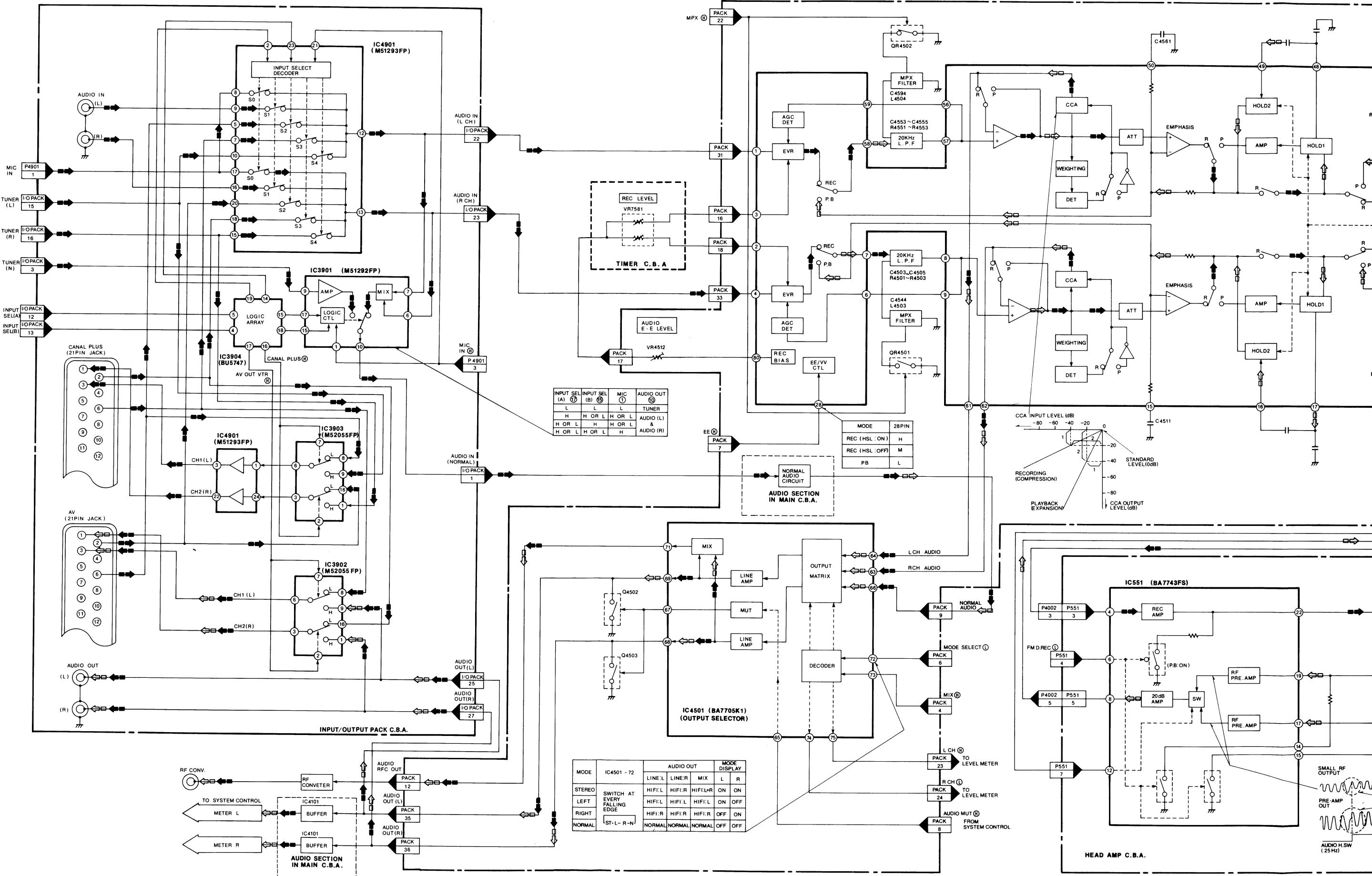
SYMBOL	TRUTH VALUE TABLE																				
INVERTER 	<table><tr><td>IN</td><td>(a)</td><td>H</td><td>L</td></tr><tr><td>OUT</td><td>(b)</td><td>L</td><td>H</td></tr></table>	IN	(a)	H	L	OUT	(b)	L	H												
IN	(a)	H	L																		
OUT	(b)	L	H																		
COMPARTOR 	<table><tr><td>IN</td><td>(a)</td><td>(a) > (b)</td><td>(a) < (b)</td></tr><tr><td></td><td>(b)</td><td></td><td></td></tr><tr><td>OUT</td><td>(c)</td><td>H</td><td>L</td></tr></table>	IN	(a)	(a) > (b)	(a) < (b)		(b)			OUT	(c)	H	L								
IN	(a)	(a) > (b)	(a) < (b)																		
	(b)																				
OUT	(c)	H	L																		
AND CIRCUIT 	<table><tr><td>IN</td><td>(a)</td><td>L</td><td>L</td><td>H</td><td>H</td></tr><tr><td></td><td>(b)</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>L</td><td>L</td><td>L</td><td>H</td></tr></table>	IN	(a)	L	L	H	H		(b)	L	H	L	H	OUT	(c)	L	L	L	H		
IN	(a)	L	L	H	H																
	(b)	L	H	L	H																
OUT	(c)	L	L	L	H																
OR CIRCUIT 	<table><tr><td>iN</td><td>(a)</td><td>L</td><td>L</td><td>H</td><td>H</td></tr><tr><td></td><td>(b)</td><td>L</td><td>H</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>L</td><td>H</td><td>H</td><td>H</td></tr></table>	iN	(a)	L	L	H	H		(b)	L	H	L	H	OUT	(c)	L	H	H	H		
iN	(a)	L	L	H	H																
	(b)	L	H	L	H																
OUT	(c)	L	H	H	H																
THREE STATES BUFFER 	<table><tr><td>IN</td><td>(a)</td><td>H</td><td>L</td><td>H or L</td></tr><tr><td></td><td>(b)</td><td>L</td><td>L</td><td>H</td></tr><tr><td>OUT</td><td>(c)</td><td>H</td><td>L</td><td>※</td></tr></table> ※ High Impedance	IN	(a)	H	L	H or L		(b)	L	L	H	OUT	(c)	H	L	※					
IN	(a)	H	L	H or L																	
	(b)	L	L	H																	
OUT	(c)	H	L	※																	
TR. SW (NPN TYPE) 	<table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>ON</td><td>OFF</td></tr></table>	BASE	H	L	TR. SW	ON	OFF														
BASE	H	L																			
TR. SW	ON	OFF																			
TR. SW (PNP TYPE) 	<table><tr><td>BASE</td><td>H</td><td>L</td></tr><tr><td>TR. SW</td><td>OFF</td><td>ON</td></tr></table>	BASE	H	L	TR. SW	OFF	ON														
BASE	H	L																			
TR. SW	OFF	ON																			
R-S TYPE FLIP-FLOP 	<table><tr><td>IN</td><td>(a)</td><td>L</td><td>L</td><td></td></tr><tr><td></td><td>(b)</td><td>L</td><td></td><td>L</td></tr><tr><td>OUT</td><td>(c)</td><td>※</td><td>L</td><td>H</td></tr><tr><td></td><td>(d)</td><td>◆</td><td>H</td><td>L</td></tr></table> ※ Initial condition is maintained. ◆ Initial condition is reversed.	IN	(a)	L	L			(b)	L		L	OUT	(c)	※	L	H		(d)	◆	H	L
IN	(a)	L	L																		
	(b)	L		L																	
OUT	(c)	※	L	H																	
	(d)	◆	H	L																	

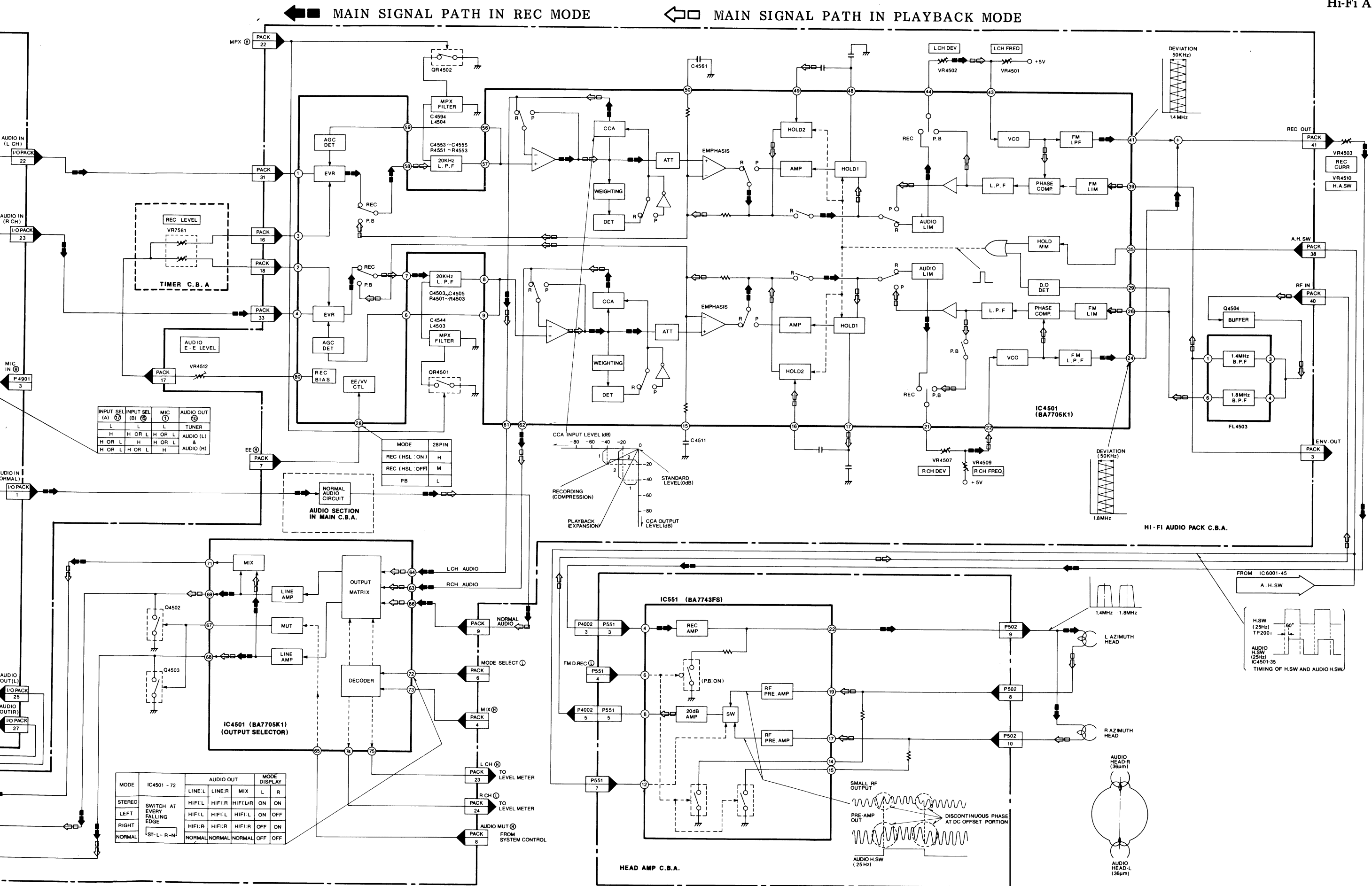
CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP

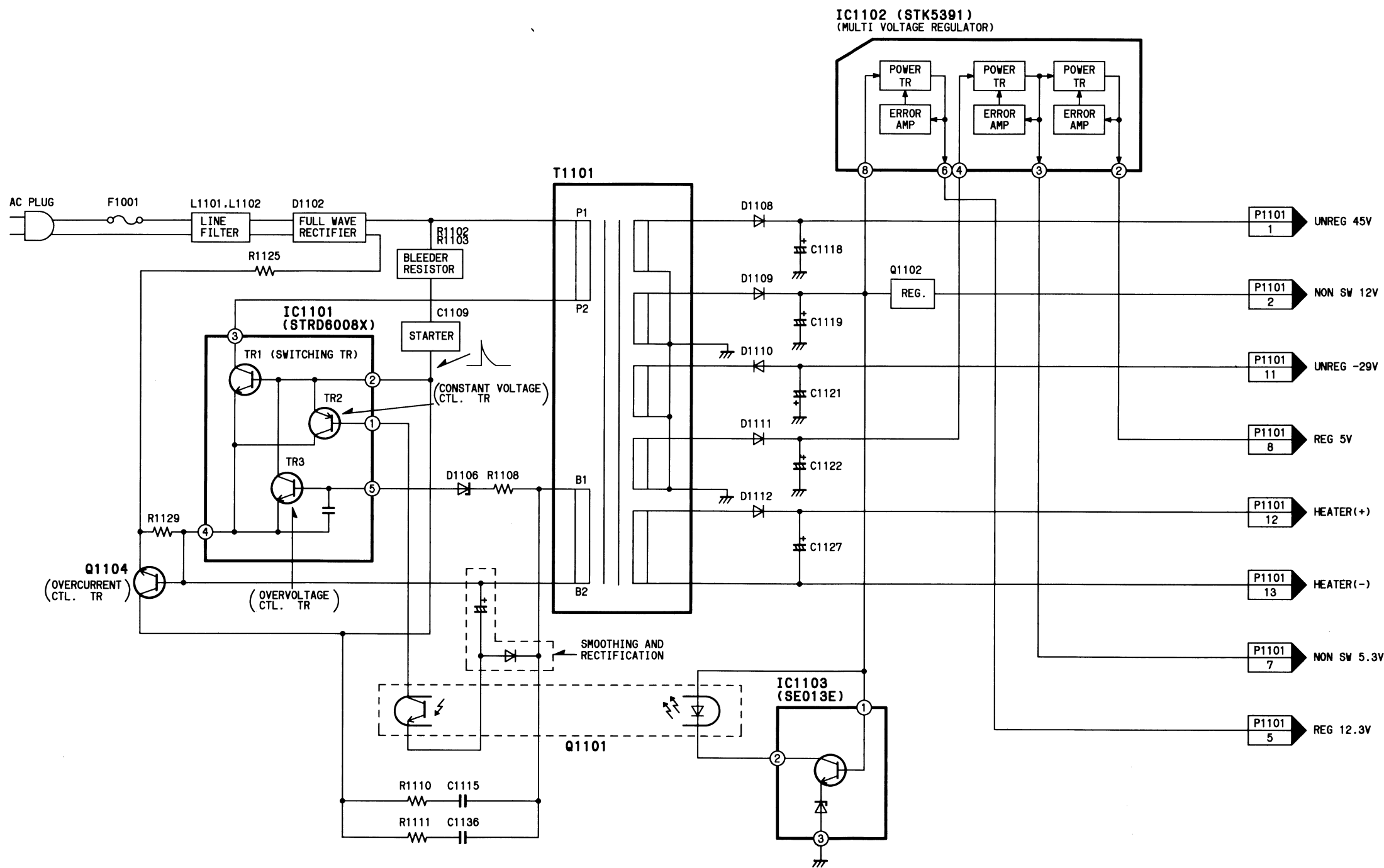


3-3. Hi-Fi AUDIO BLOCK DIAGRAM

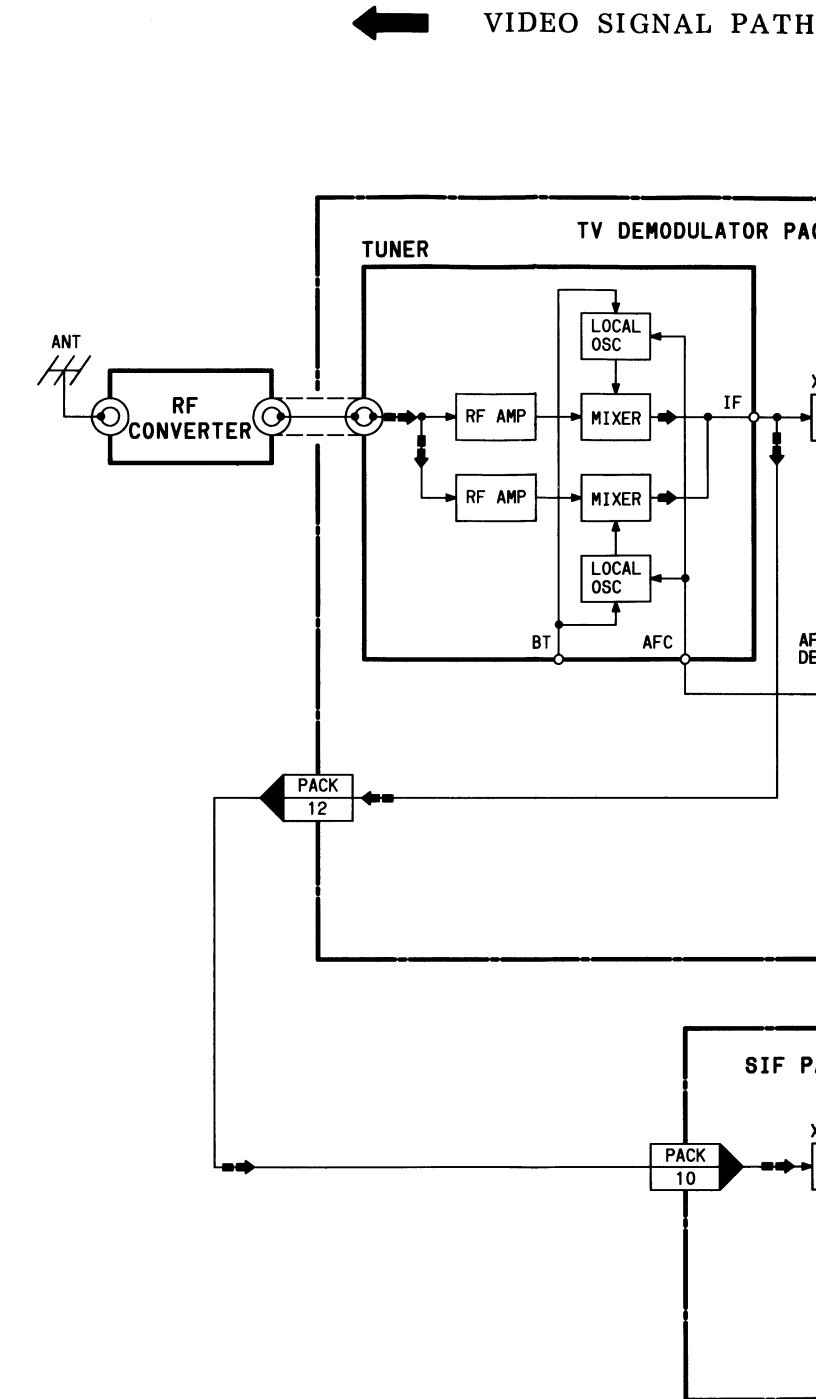




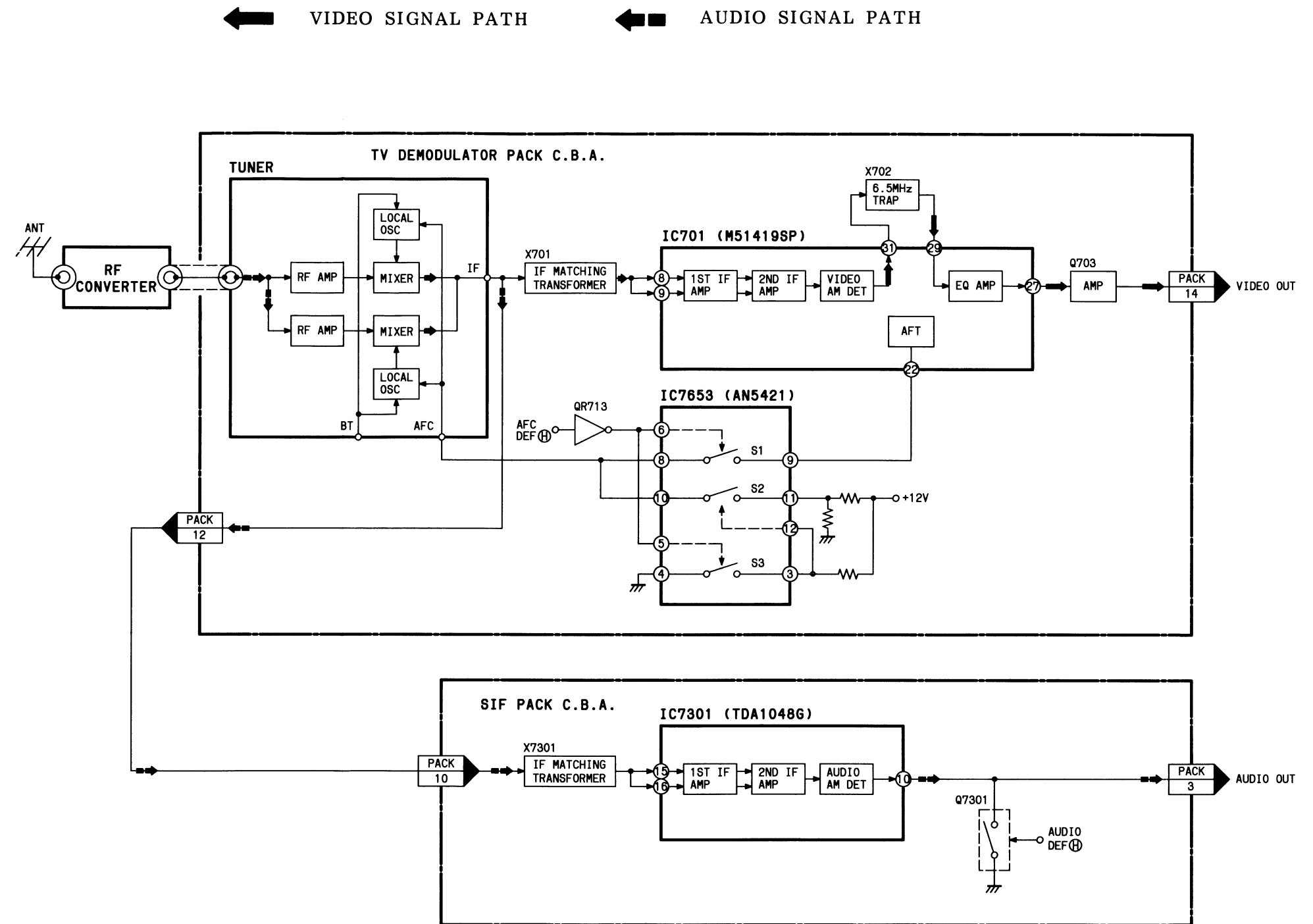
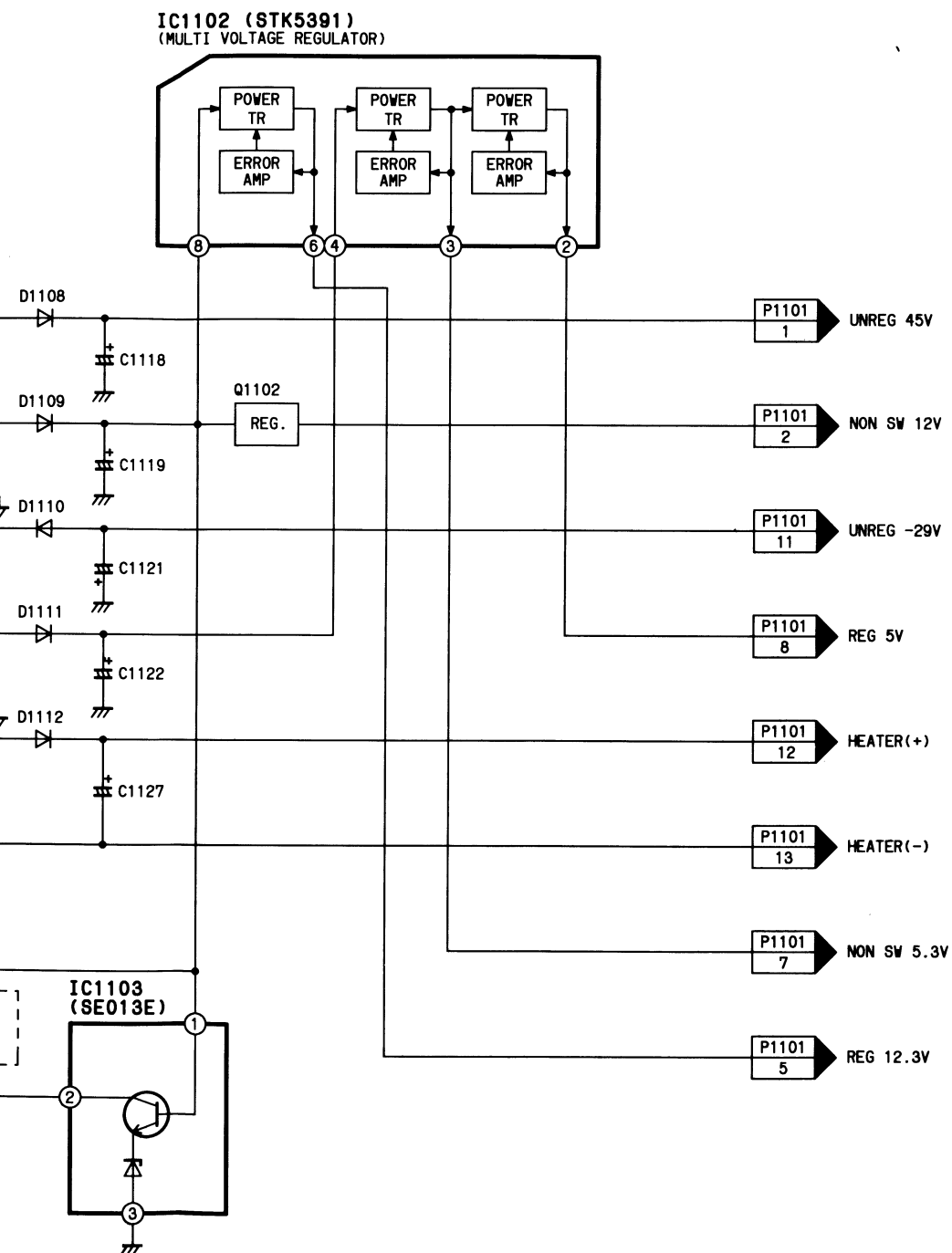
3-4. POWER BLOCK DIAGRAM



3-5. TV DEMODULATOR & SIF BLOCK D



3-5. TV DEMODULATOR & SIF BLOCK DIAGRAM



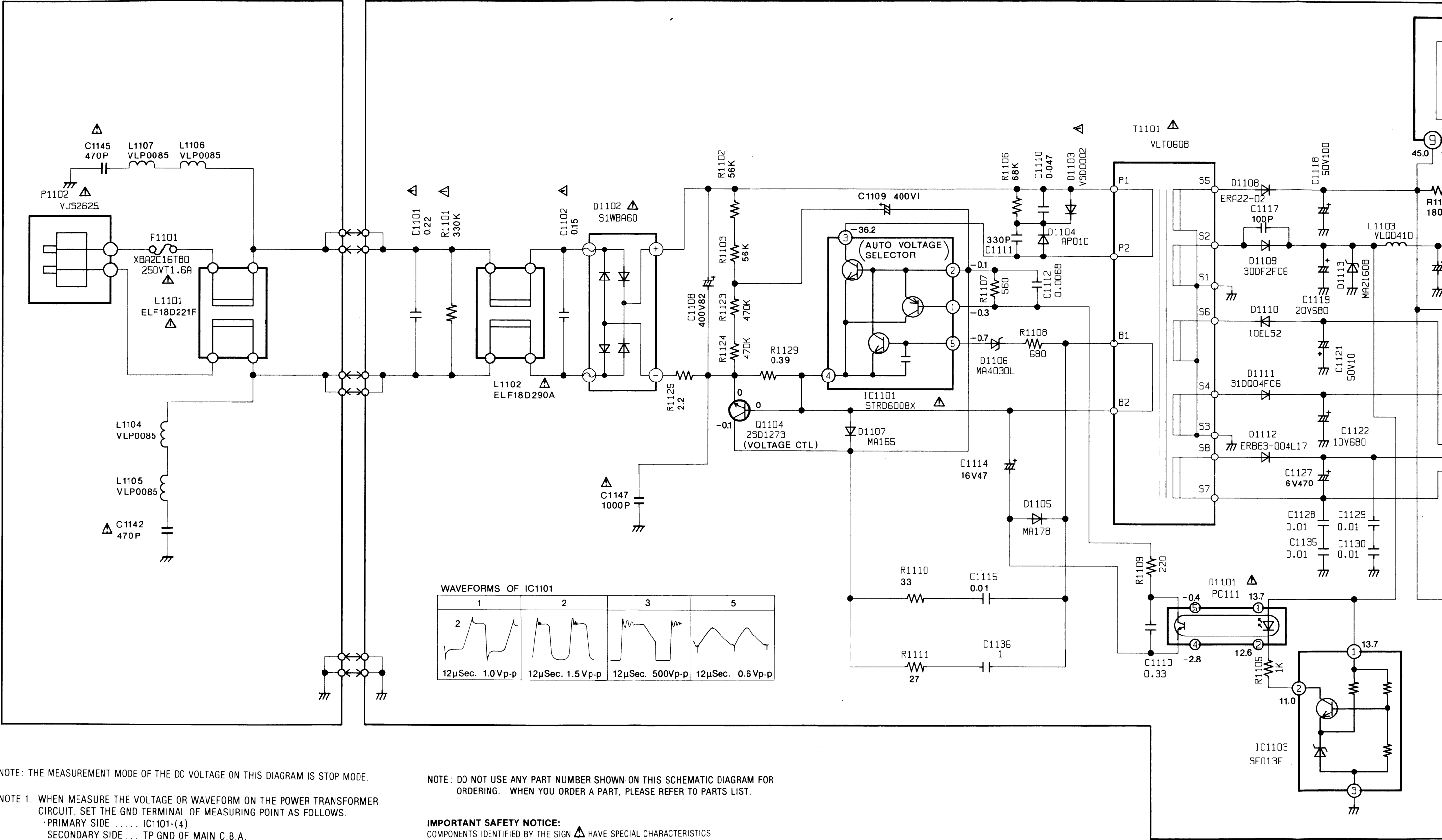
3-6. POWER SCHEMATIC DIAGRAM

D

C

B

A



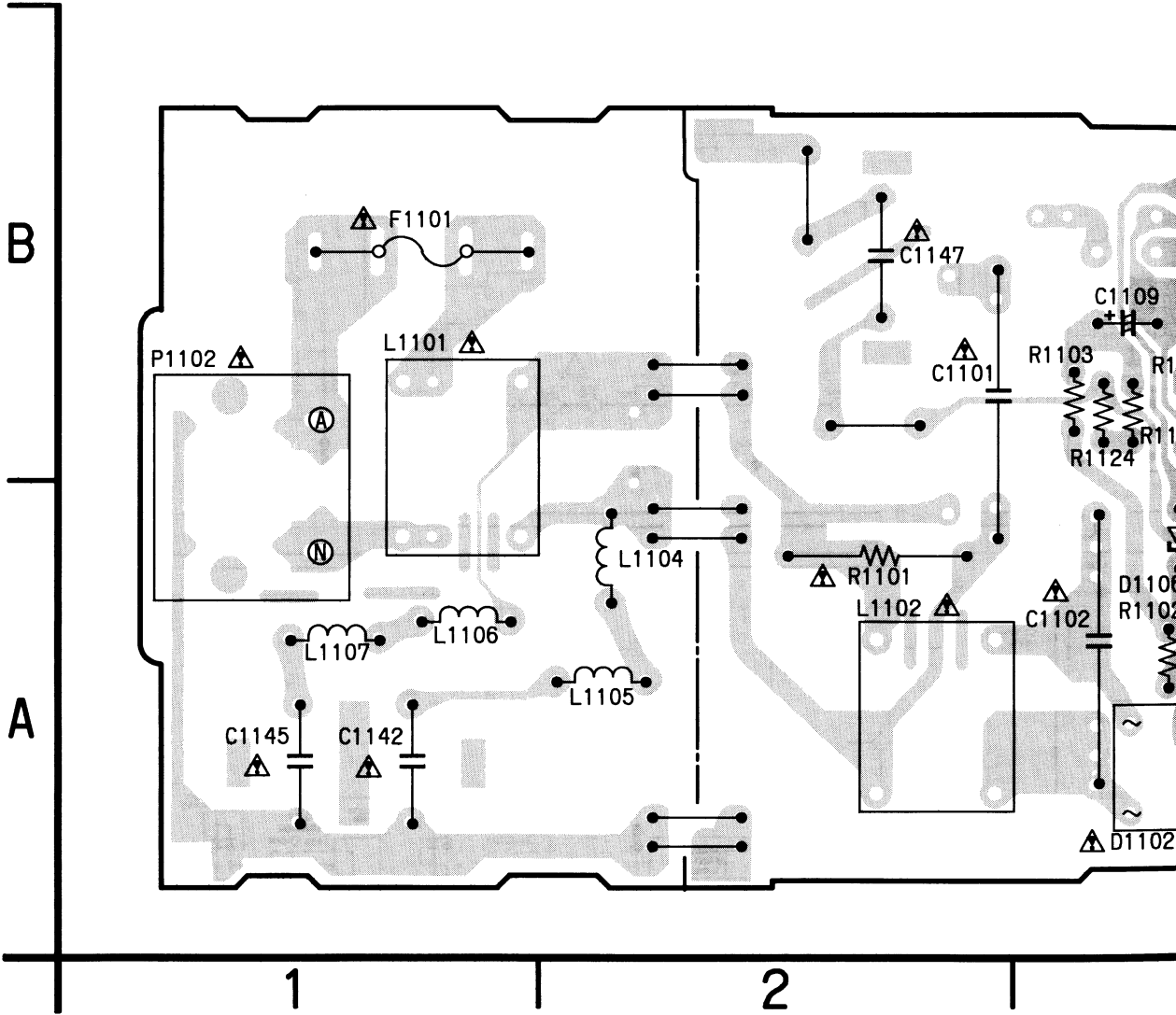
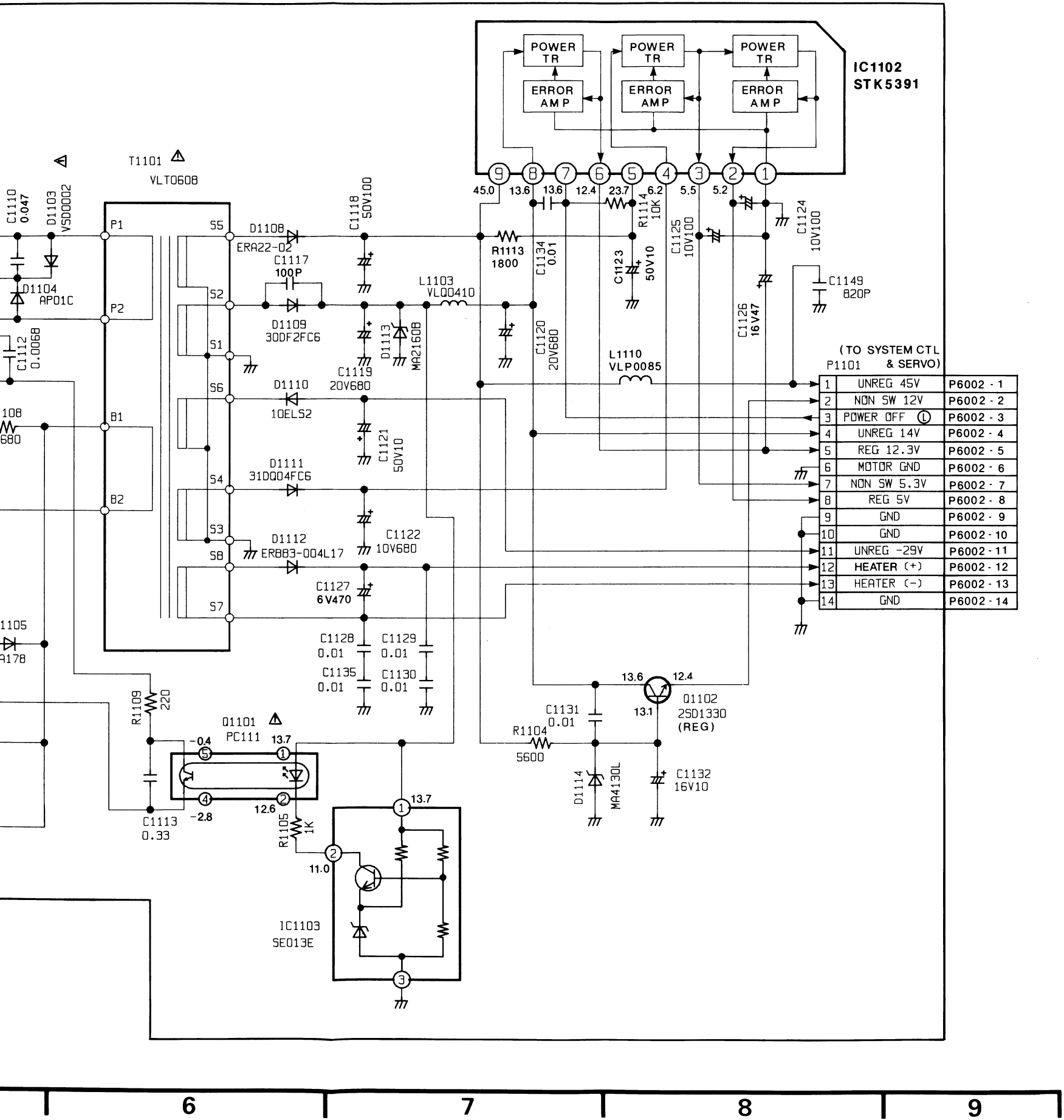
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE IC1101-(4)
SECONDARY SIDE TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 220V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SPECIFIED PARTS.



IC1102
STK5391

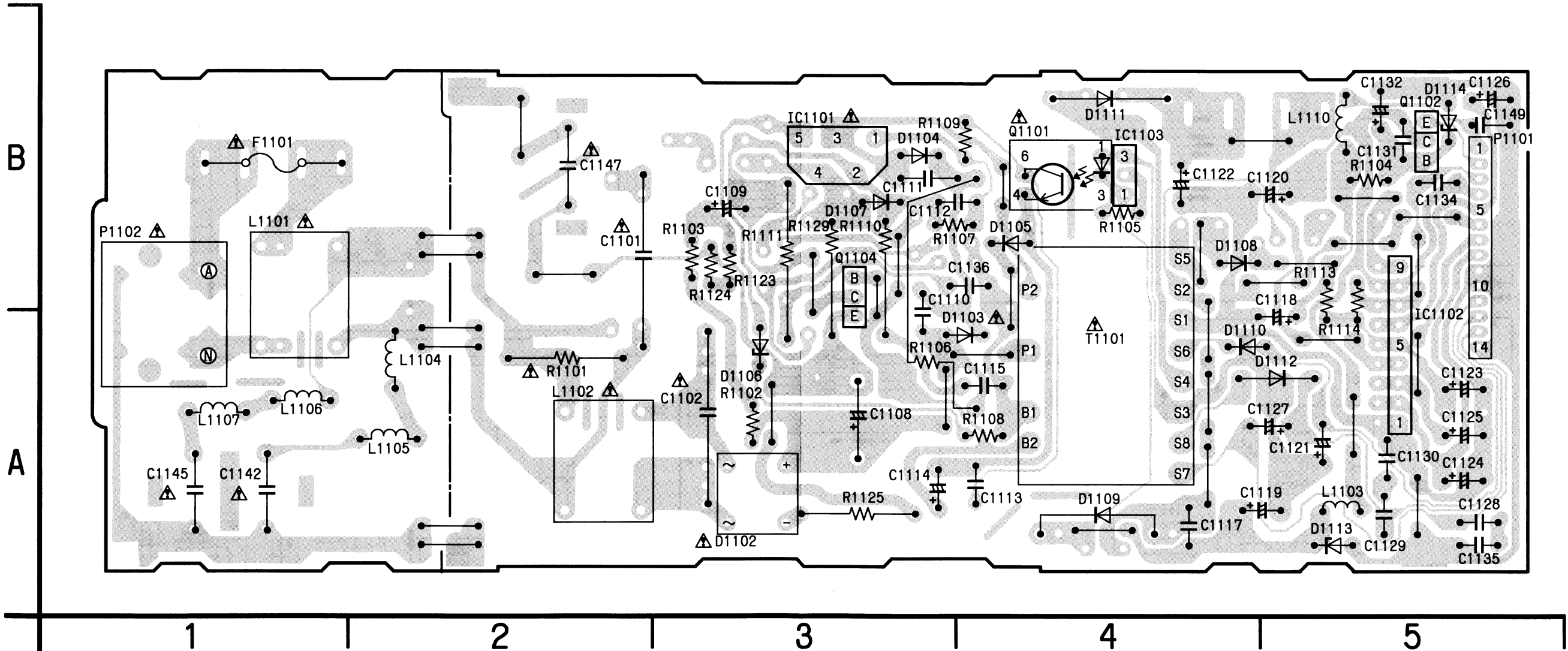
49
320P

TO SYSTEM CTL
01 & SERVO)

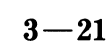
UNREG 45V	P6002 - 1
NON SW 12V	P6002 - 2
POWER OFF	P6002 - 3
UNREG 14V	P6002 - 4
REG 12.3V	P6002 - 5
MOTOR GND	P6002 - 6
NON SW 5.3V	P6002 - 7
REG 5V	P6002 - 8
GND	P6002 - 9
GND	P6002 - 10
UNREG -29V	P6002 - 11
HEATER (+)	P6002 - 12
HEATER (-)	P6002 - 13
GND	P6002 - 14

POWER C.B.A.	
Transistor	
Q1101	B-4
Q1102	B-5
Q1104	B-3
Integrated Circuit	
IC1101	B-3
IC1102	A-5
IC1103	B-4
Connector	
P1101	B-5
P1102	B-1

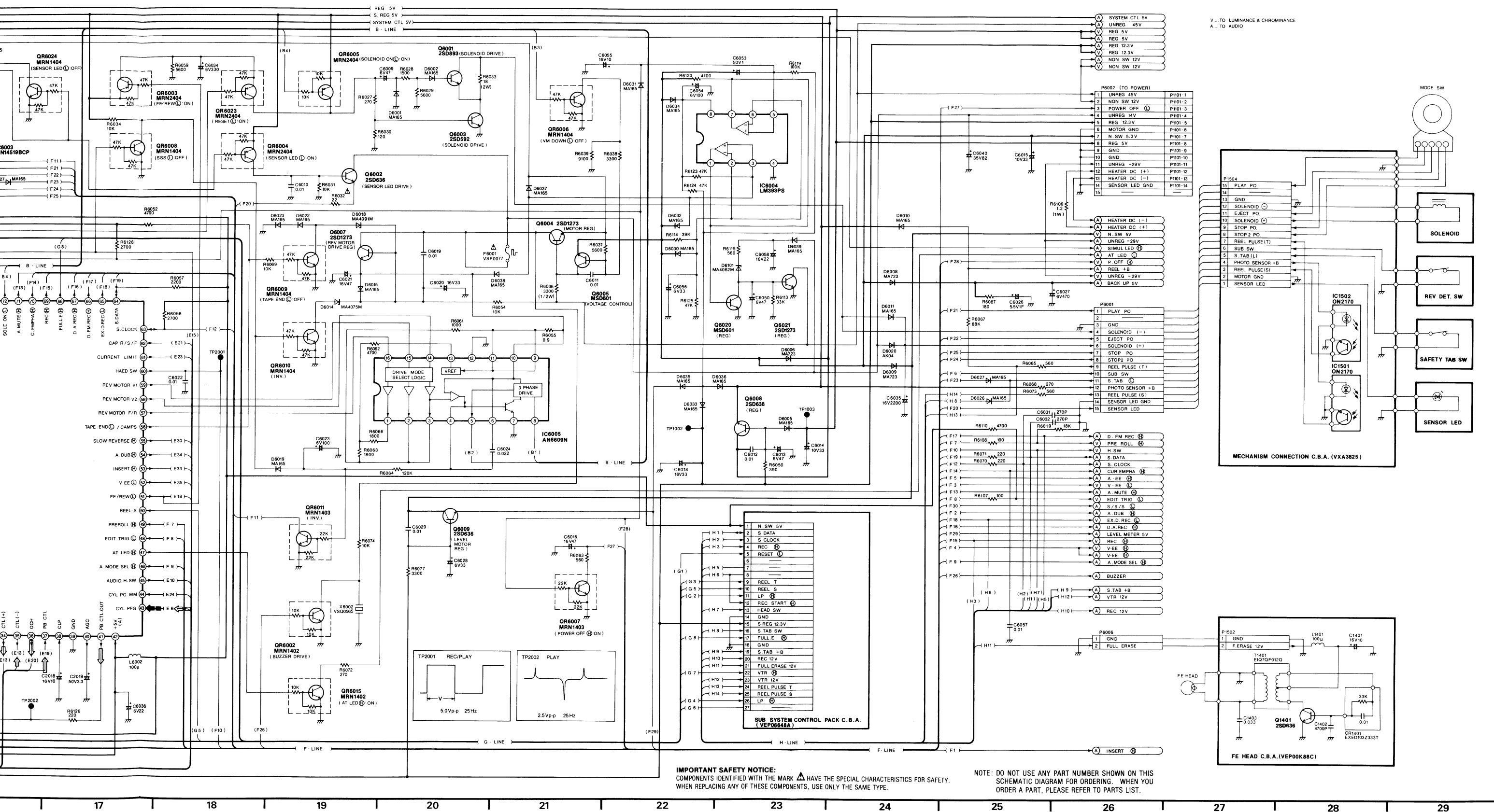
ADDRESS INFORMATION



CYLINDER SERVO SPEED LOOP







SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC1510																			
MODE	1	2	3	4	5	6	7	8												
STOP	5.8	5.8	5.8	0	5.9	5.9	5.9	11.8												
PLAY	5.8	5.8	5.8	0	5.9	5.9	5.9	11.8												
FF	5.8	5.8	5.8	0	5.9	5.9	5.9	11.8												
REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	7.0	0	7.0	1.4	2.0	2.1	2.0	2.0	2.0	2.0	2.0	0	4.9	3.5	2.6	4.0	4.9	0	0.4	0
PLAY	2.5	0.1	2.5	1.4	2.1	2.1	2.1	2.1	2.1	2.1	0	0	4.9	3.6	2.6	2.3	4.9	0.6	0.4	0.1
FF	6.2	0.1	6.2	1.4	2.0	2.0	2.0	2.0	2.0	2.0	0	0	4.9	3.5	2.6	2.3	4.9	0.7	0.4	0.1
REF. NO.	IC2001										IC2004									
MODE	21	22	23	24							1	2	3	4	5	6	7	8		
STOP	0	0.5	7.0	13.5							2.5	2.5	2.5	0	0	0	0	4.9		
PLAY	0	0.6	2.5	8.9							2.5	2.5	2.5	0	0	0	0	4.9		
FF	0	0.7	6.2	13.3							2.5	2.5	2.5	0	0	0	0	4.9		
REF. NO.	IC2002										IC2004									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	2.9	3.0	3.0	0	3.0	3.0	2.9	4.9			2.5	2.5	2.5	0	0	0	0	4.9		
PLAY	3.0	3.0	3.0	0	3.0	3.0	3.0	4.9			2.5	2.5	2.5	0	0	0	0	4.9		
FF	3.0	3.0	3.0	0	3.0	3.0	3.0	4.9			2.5	2.5	2.5	0	0	0	0	4.9		
REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	13.5	13.5	0	0.1	0	2.4	4.1	2.4	2.5	1.0	4.8	4.0	4.0	3.7	4.8	13.5	13.5	0		
PLAY	8.6	8.6	0.1	1.2	0	2.4	2.3	2.5	2.4	2.5	4.8	3.6	3.6	3.6	1.1	8.9	8.6	0.1		
FF	13.4	13.4	0	0.1	0	2.4	4.1	2.5	2.4	1.1	4.9	4.0	4.0	3.7	4.8	13.4	13.4	0		
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0.3	0.4	4.6	5.0	5.0	2.0	0	0	5.0	5.0	0	0	0	0	2.5	3.2	3.2	4.7	0
PLAY	0	0	0.4	5.0	5.0	5.0	2.0	0	4.5	5.0	5.0	0	0	0	0	2.5	3.2	3.2	4.7	0
FF	0	0.7	0.7	4.4	5.0	5.0	2.0	0	0	5.0	5.0	0	0	0	0	2.5	3.2	3.2	2.5	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	5.0	4.0	4.2	1.7	2.5	2.9	2.9	0	2.5	2.2	2.7	4.9	0	0	0	2.5	0	0	2.4
PLAY	5.0	5.0	2.3	2.4	2.9	2.5	3.0	3.0	0	2.5	2.8	2.5	4.9	0	0	0	2.5	2.5	0	2.8
FF	5.0	5.0	2.3	4.2	1.9	2.5	3.0	3.0	0	2.5	2.5	2.6	4.9	0	0	0	2.5	2.5	0	2.9
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	2.5	5.0	4.9	0	0	5.0	0	4.9	0	4.7	4.9	0	0	0	0	4.9	4.9	4.9	4.9	0
PLAY	2.5	5.0	1.4	2.9	3.8	4.9	4.9	4.9	0	4.7	4.9	4.9	0	0	0	4.9	4.9	4.9	4.9	4.5
FF	2.5	5.0	4.9	0	0	5.0	0	4.9	0	3.5	0	0	0	0	0	5.0	5.0	5.0	5.0	0
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	4.9	2.0	4.5	4.5	0	0	0	0	0	0	0	5.0	0	5.0	5.0	4.6	0	0	5.0	0
PLAY	4.9	0	4.5	4.2	0	0	0	0	0	0	0	4.9	4.9	0	4.9	4.6	0	0	4.9	0.1
FF	4.9	0	4.4	4.4	0	0	0	0	0	0	0	5.0	4.9	5.0	5.0	4.4	0	0	5.0	0.1
REF. NO.	IC6001										IC6002									
MODE	81	82	83	84							1	2	3							
STOP	0	—	—	4.8							4.8	4.9	0							
PLAY	0	—	—	4.8							4.8	4.9	0							
FF	0	2.4	2.4	5.0							5.0	5.0	0							
REF. NO.	IC6003																IC6004			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	0	0	4.9	4.9	0.5	4.9	4.9	0	0.4	5.0	0.4	5.0	0.4	4.6	4.9	5.0				
PLAY	0	0	4.9	4.9	0	4.9	4.9	0	0.4	5.0	0.4	5.0	0	4.6	0	5.0				
FF	0	0	4.9	4.9	0.5	4.9	4.9	0	0.6	5.0	0.6	4.4	0.6	4.4	4.9	5.0				
REF. NO.	IC6004																IC6005			
MODE	1	2	3	4	5	6	7	8												
STOP	0.7	2.9	4.8	0	4.8	3.0	0.7	4.8												
PLAY	0.7	2.9	4.8	0	4.8	2.9	0.7	4.8												
FF	0.7	2.9	4.8	0	4.8	2.9	0.7	4.8												
REF. NO.	IC6005																IC6006			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	6.7	7.0	7.0	0.6	5.0	5.3	0	5.0	7.1	7.1	7.1	0	6.0	5.0	5.0	4.9				
PLAY	8.4	8.7	8.7	0.6	6.6	6.9	0	6.6	8.8	8.8	8.8	0	7.6	4.9	4.9	4.9				
FF	8.4	8.7	8.7	0.6	6.6	6.9	0	6.6	8.8	8.8	8.8	0	7.6	4.9	4.9	4.9				

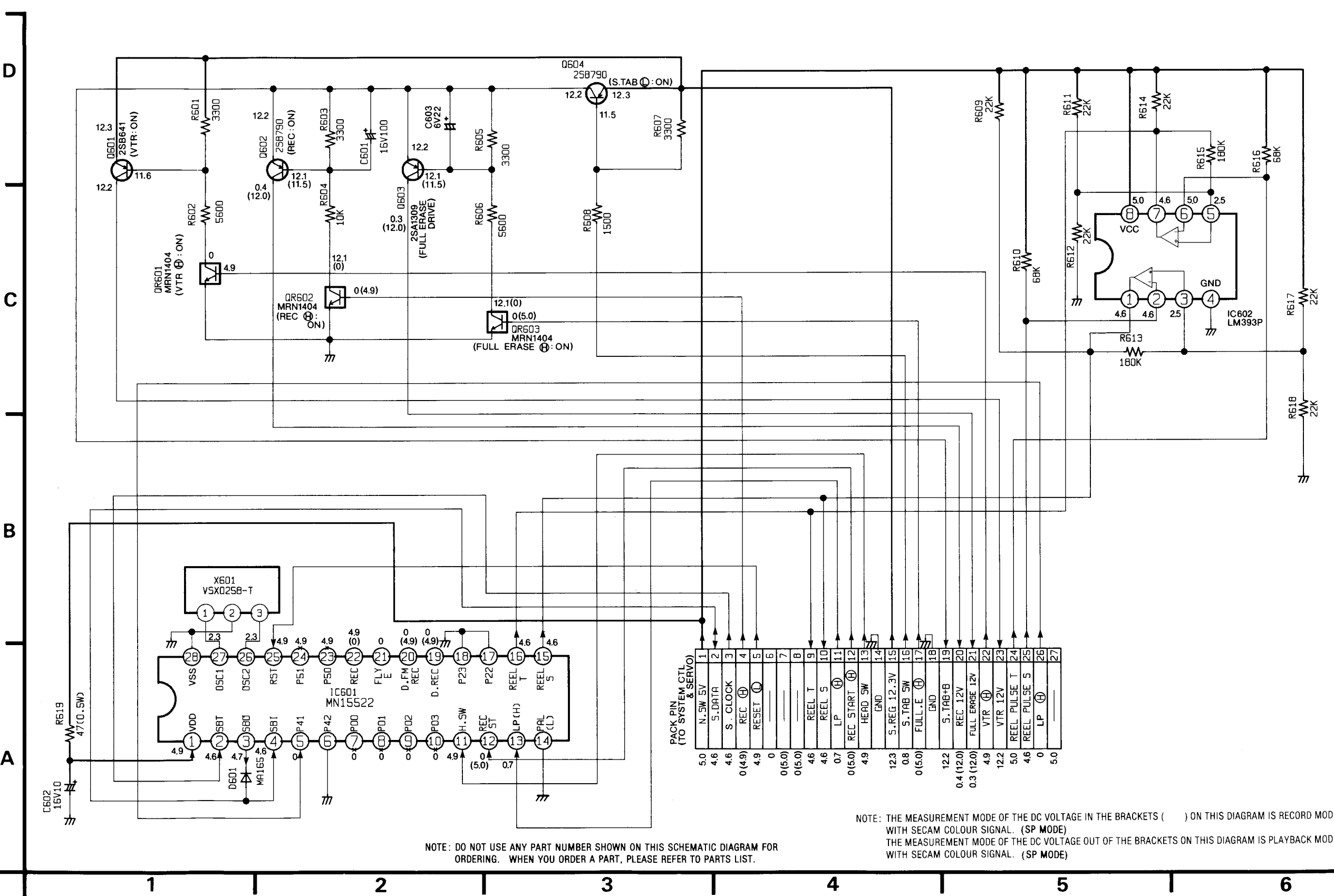
SYSTEM CONTROL & SERVO TRs DC VOLTAGE CHART (SP MODE)

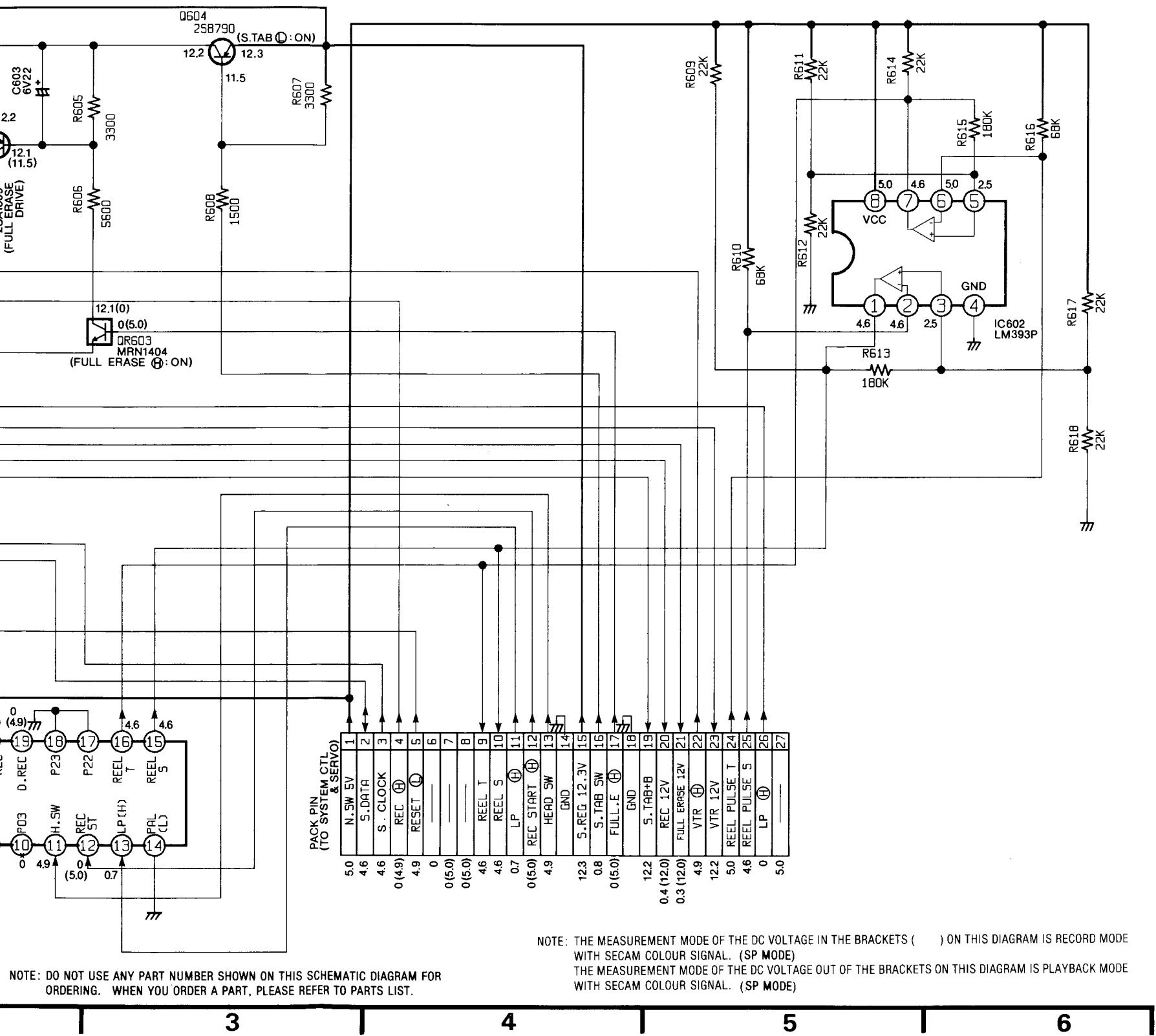
REF. NO. MODE	Q6001			Q6002			Q6003			Q6004			Q6005			Q6007		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	13.5	13.5	5.1	0.5	13.5	0.4	0	13.5	0	13.5	13.5	14.2	5.3	14.2	5.0	7.1	13.5	7.6
PLAY	13.4	13.4	5.0	0.5	13.4	0.4	0	13.4	0	8.9	13.3	9.4	5.3	9.4	6.0	8.8	13.3	9.3
FF	13.4	13.4	5.0	0.8	13.5	0.7	0	13.4	0	13.4	13.4	14.1	5.3	14.1	5.0	8.8	13.4	9.3
REF. NO. MODE	Q6008			Q6009			Q6019			Q6020			Q6021					
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B			
STOP	4.9	5.0	5.7	5.0	5.0	5.7	—	5.0	—	0	0	0.7	0	45.0	0			
PLAY	4.9	5.0	5.7	4.9	5.0	5.7	—	5.0	—	0	0	0.7	0	45.8	0			
FF	4.9	5.0	5.7	5.0	5.0	5.7	—	5.0	—	0	0	0.7	0	45.5	0.2			
REF. NO. MODE	QR2008			QR2009			QR2012			QR2013			QR2014			QR2015		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	2.9	3.0	0	5.0	0.7	5.0	2.9	3.0	0	5.0	5.0	0	0	4.9	0	5.0	2.3	4.9
PLAY	3.0	3.0	4.9	5.0	0.7	5.0	3.0	2.9	4.9	5.0	5.0	0	0	4.9	0	5.0	2.3	4.9
FF	3.0	3.0	4.9	5.0	0.7	5.0	3.0	2.9	4.9	5.0	5.0	0	0	4.9	0	5.0	2.3	4.9
REF. NO. MODE	QR6001			QR6002			QR6003			QR6004			QR6005			QR6006		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	5.0	0	0	0	4.9	4.9	0.3	4.9	4.9	0	4.9	4.9	0	5.0	0	0	5.0
PLAY	0	5.0	0	0	0	4.9	4.9	0.3	4.9	4.9	0.4	4.6	4.9	0	4.9	0	4.4	0
FF	0	5.0	0	0	0	4.9	4.9	4.9	0	4.9	0.7	4.4	4.9	0	5.0	0	0	4.9
REF. NO. MODE	QR6007			QR6008			QR6009			QR6010			QR6011			QR6012		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	13.5	0	0	4.1	0	0	0	4.1	0	0.1	4.1	0	5.0	0.2	4.9	4.9	0
PLAY	0	13.5	0	0	0	4.9	0	0.1	4.1	0	2.4	0	0	4.9	0.2	4.9	0.4	5.0
FF	0	13.5	0	0	0	4.9	0	0.1	4.1	0	2.3	0	0	4.9	0.2	4.9	4.9	0
REF. NO. MODE	QR6014			QR6015			QR6016			QR6023			QR6024			QR6026		
	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	4.5	0	0	3.5	0	0	0	5.0	0.3	0	4.8	0	0	4.9	0	0	4.9
PLAY	0	0.4	0	0	0.1	4.9	0	0	5.0	0.3	0	4.8	0	0.4	4.6	0	0	4.9
FF	0	4.5	0	0	3.5	0	0	0	5.0	4.9	0	4.9	0	0.6	4.6	0	0	0
REF. NO. MODE	QR6029			QR6030														
	E	C	B	E	C	B												
STOP	0	0	0	0	0	4.9												
PLAY	0	0	0	0	0	4.9												
FF	0	0	0	0	0.8	0												

3-9. SUB SYSTEM CONTROL PACK SCHEMATIC DIAGRAM

VOLTAGE CHART (SP MODE)

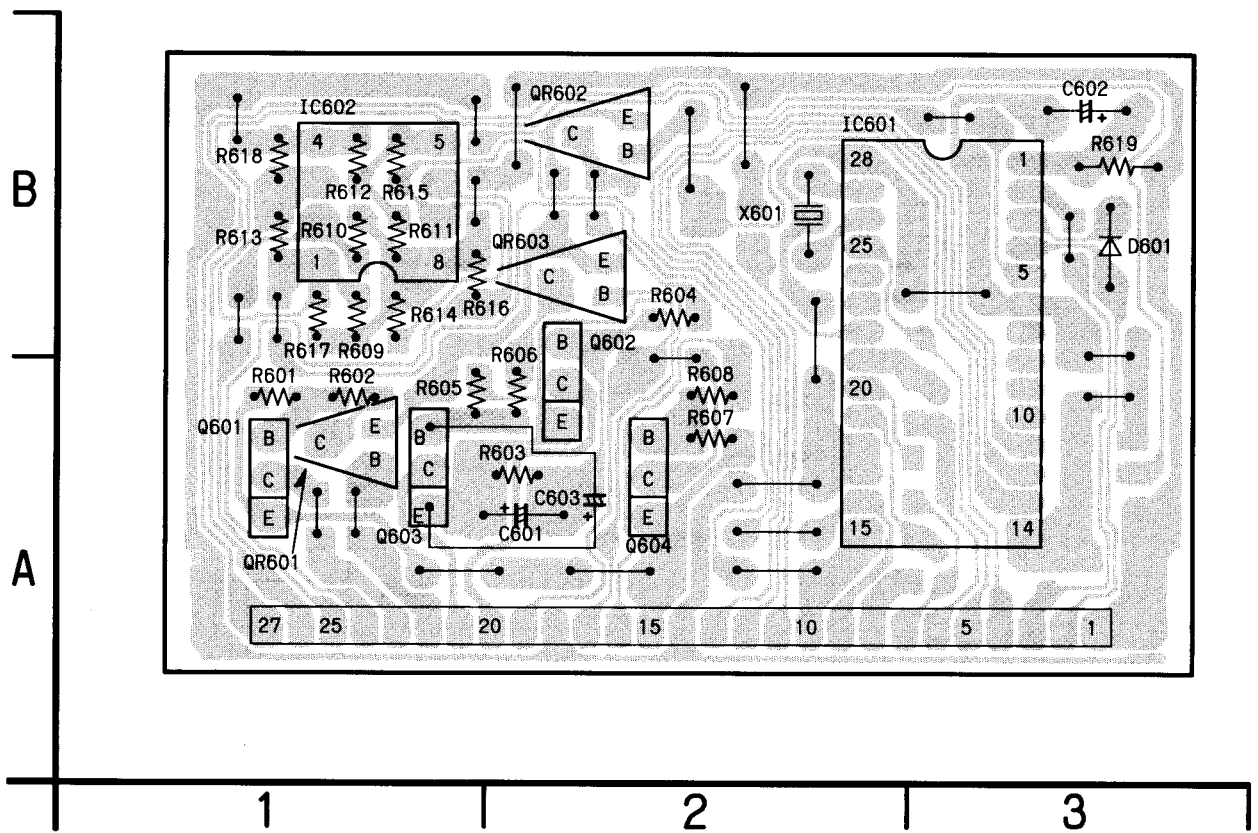
Q6004				Q6005				Q6007			
C	B	E		C	B	E		C	B	E	
13.5	14.2	5.3		14.2	5.0	7.1		13.5	7.6		
13.3	9.4	5.3		9.4	6.0	8.8		13.3	9.3		
13.4	14.1	5.3		14.1	5.0			13.4	9.3		
Q6020				Q6021							
C	B	E		C	B	E					
0	0.7	0		45.0	0						
0	0.7	0		45.8	0						
0	0.7	0		45.5	0.2						
QR2013				QR2014				QR2015			
C	B	E		C	B	E		C	B	E	
5.0	0	0		4.9	0	5.0		2.3	4.9		
5.0	0	0		4.9	0	5.0		2.3	4.9		
5.0	0	0		4.9	0	5.0		2.3	4.9		
QR6004				QR6005				QR6006			
C	B	E		C	B	E		C	B	E	
0	4.9	4.9		0	5.0	0		0	5.0		
0.4	4.6	4.9		0	4.9	0		4.4	0		
0.7	4.4	4.9		0	5.0	0		0	4.9		
QR6010				QR6011				QR6012			
C	B	E		C	B	E		C	B	E	
0.1	4.1	0		5.0	0.2	4.9		4.9	0		
2.4	0	0		4.9	0.2	4.9		0.4	5.0		
2.3	0	0		4.9	0.2	4.9		4.9	0		
QR6023				QR6024				QR6026			
C	B	E		C	B	E		C	B	E	
0	4.8	0		0	4.9	0		0	4.9		
0	4.8	0		0.4	4.6	0		0	4.9		
0	4.9	0		0.6	4.6	0		0	0		



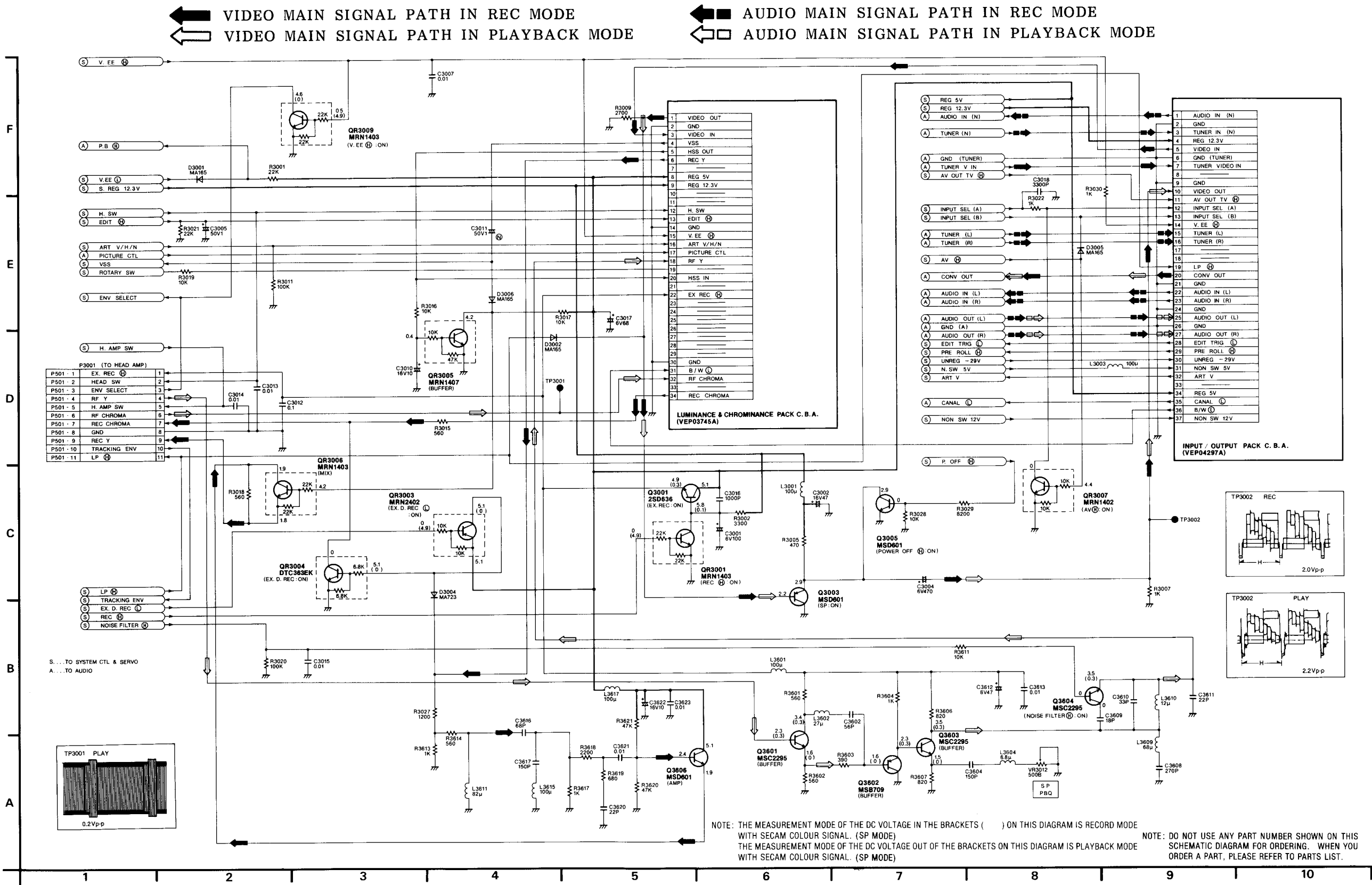


SUB SYSTEM CONTROL PACK C.B.A.	
Transistor	
Q601	A-1
Q602	B-2
Q603	A-1
Q604	A-2
Transistor & Resistor	
QR601	A-1
QR602	B-2
QR603	B-2
Integrated Circuit	
IC601	B-1
IC602	B-2

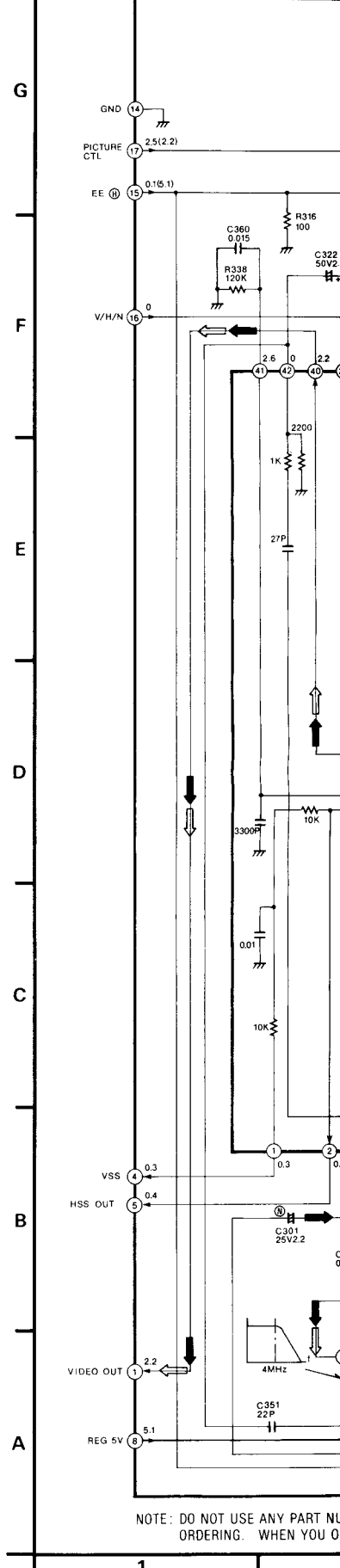
ADDRESS INFORMATION



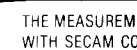
3-11. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM



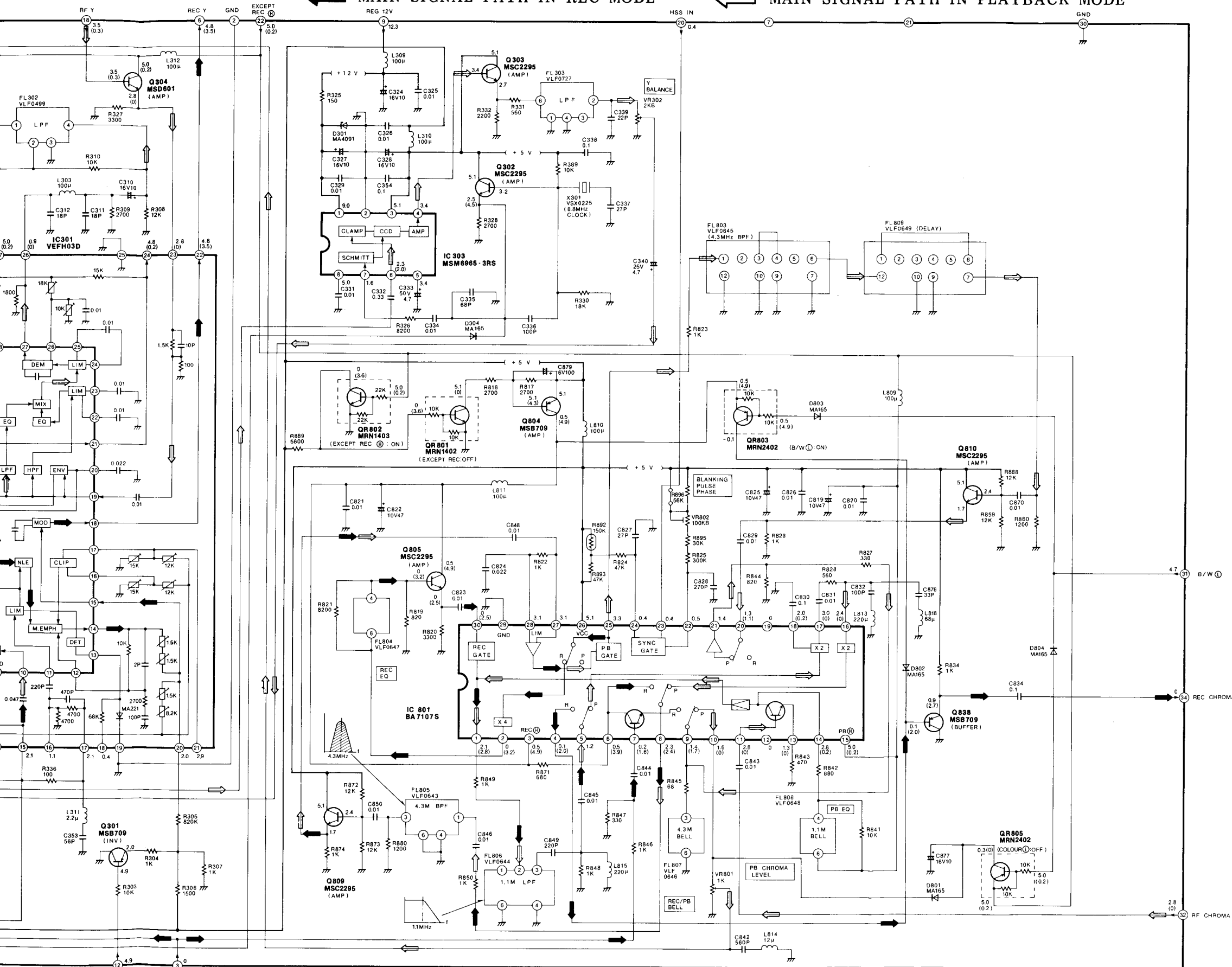
3-12. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM



MAIN SIGNAL PATH



 MAIN SIGNAL PATH IN REC MODE
 MAIN SIGNAL PATH IN PLAYBACK MODE



THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH SECAM COLOUR SIGNAL. (SP MODE)

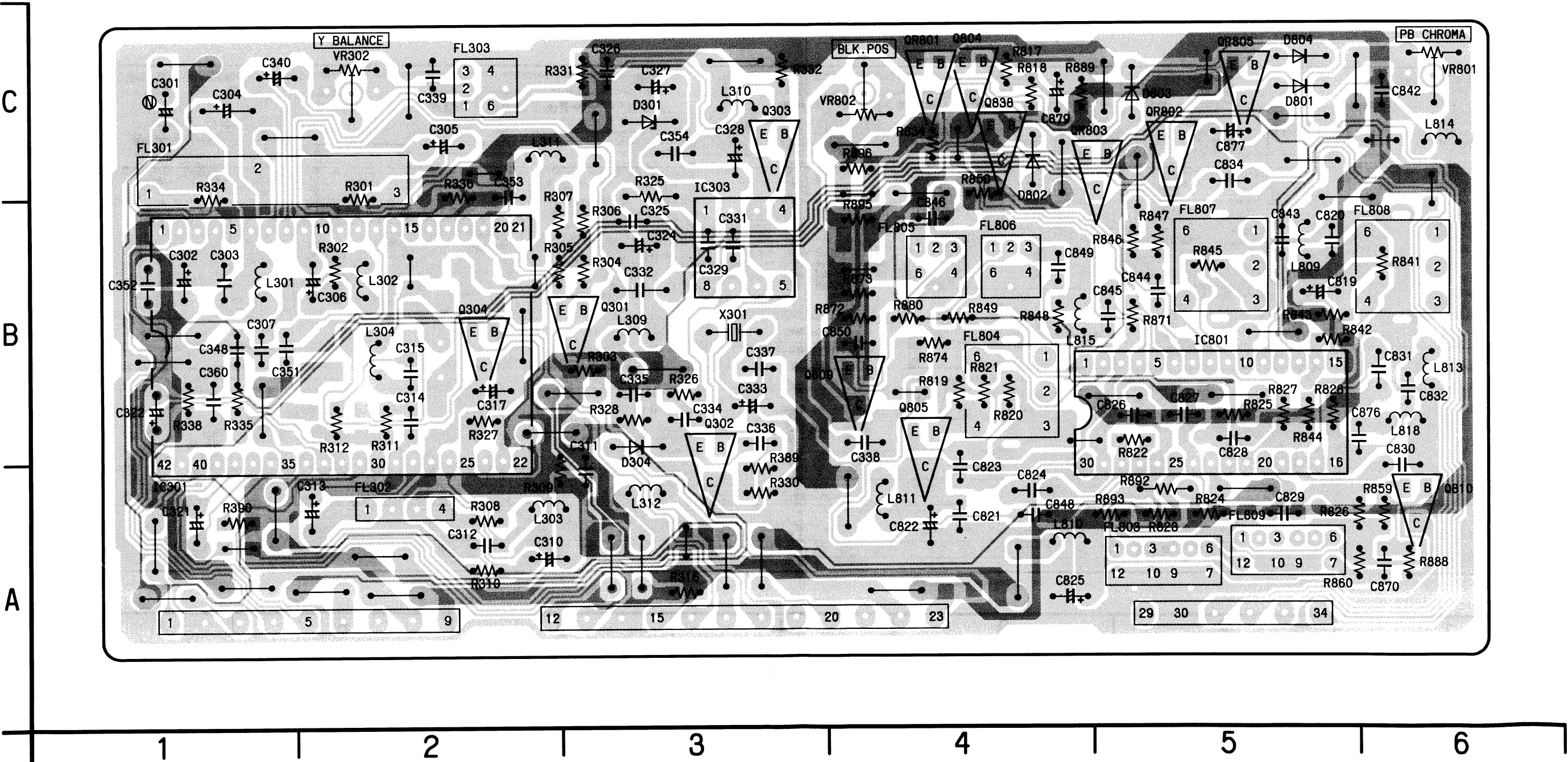
PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 1.2 Vp-p (REC/P.B)	23	 1.5 Vp-p (P.B)
2	 0.12 Vp-p (REC/P.B)	26	 0.7 Vp-p (P.B)
3	 0.6 Vp-p (REC/P.B)	28	 0.4 Vp-p (P.B)
5	 0.6 Vp-p (REC)	33	 0.25 Vp-p (P.B)
5	 0.6 Vp-p (P.B)	35	 0.3 Vp-p (P.B)
7	 0.35 Vp-p (REC/P.B)	37	 0.8 Vp-p (REC/P.B)
11	 0.25 Vp-p (REC/P.B)	38	 0.9 Vp-p (REC/P.B)
13	 0.8 Vp-p (REC/P.B)	40	 2.1 Vp-p (REC/P.B)
15	 0.8 Vp-p (REC/P.B)	41	 0.5 Vp-p (REC/P.B)
17	 0.7 Vp-p (REC/P.B)		
22	 0.8 Vp-p (REC)		

1		2.0 Vp-p (REC/PLAY)
3		1.0 Vp-p (REC/PLAY)
4		1.8 Vp-p (REC/PLAY)
5		0.12 Vp-p (REC/PLAY)
6		0.8 Vp-p (REC)
12		5.0 Vp-p (REC/PLAY)
18		0.11 Vp-p (PLAY)
20		0.17 Vp-p (REC/PLAY)
32		0.22 Vp-p (PLAY)
34		0.4 Vp-p (REC)

3-13. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03745A)

LUMINANCE & CHROMINANCE PACK C.B.A.						
Transistor			Integrated Circuit			
Q301	B-3	IC301	IC301	A-1	IC303	
Q302	B-3		IC303	B-3		
Q303	C-3		IC801	B-5		
Q304	B-2		Adjustment			
Q804	C-4					
Q805	B-4	VR302	VR302	C-2	VR801	
Q809	B-4		VR801	C-6		
Q810	A-6		VR802	C-4		
Q838	C-4					
Transistor & Resistor						
QR801	C-4					
QR802	C-5					
QR803	C-5					
QR805	C-5					

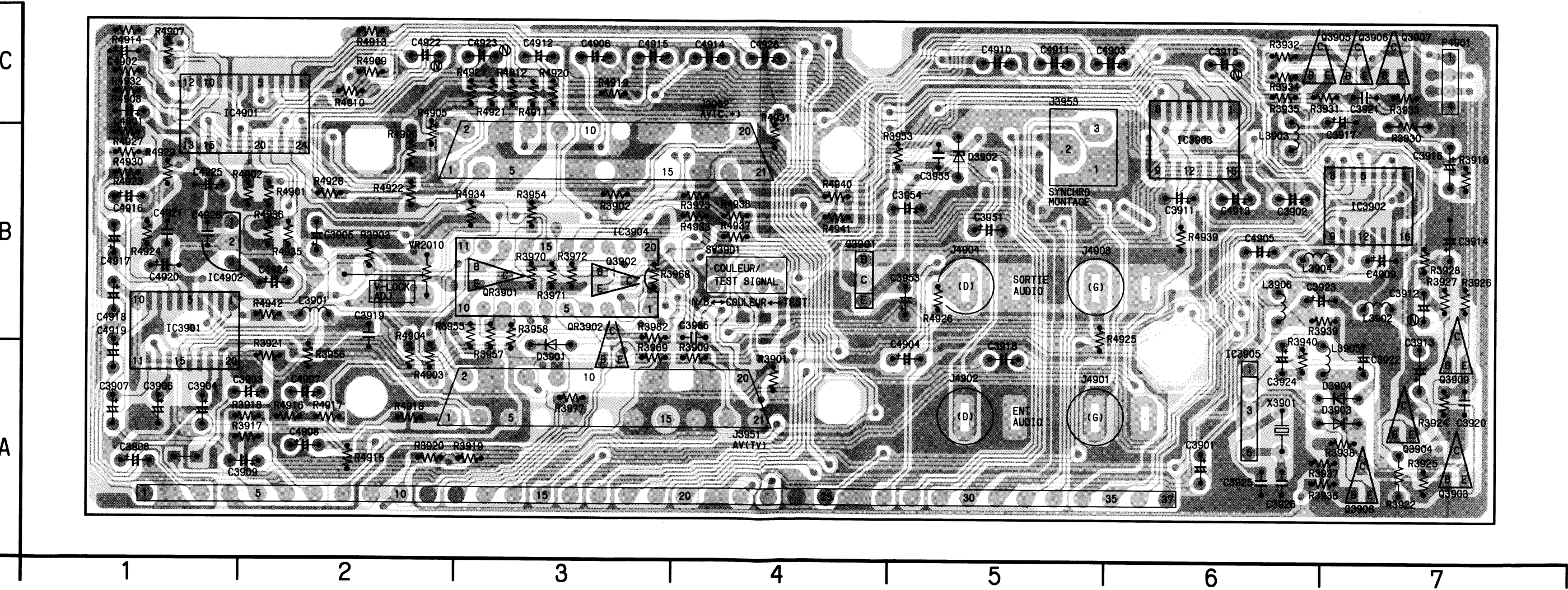
ADDRESS INFORMATION



3-14. INPUT/OUTPUT PACK C.B.A. (VEP04297A)

INPUT/OUTPUT PACK C.B.A.			
Transistor		Integrated Circuit	
Q3901	B-4	IC3901	B-1
Q3902	B-3	IC3902	B-7
Q3903	A-7	IC3903	B-6
Q3904	A-7	IC3904	B-3
Q3905	C-7	IC3905	A-6
Q3906	C-7	IC4901	C-2
Q3907	C-7	IC4902	B-1
Q3908	A-7	Adjustment	
Q3909	A-7		
Transistor & Resistor		VR2010	B-2
Connector		Connector	
		P4901	C-7

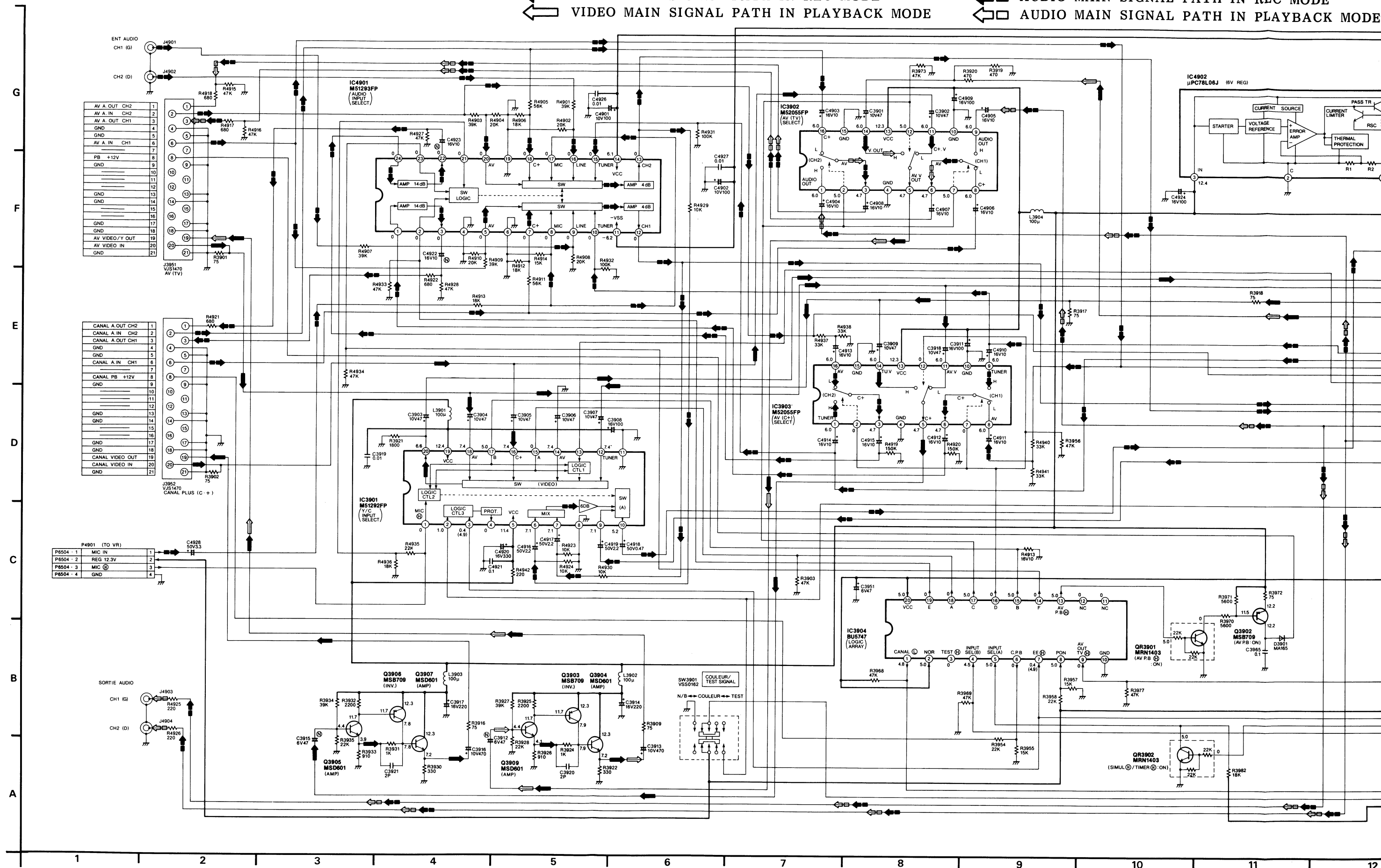
ADDRESS INFORMATION



3-15. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

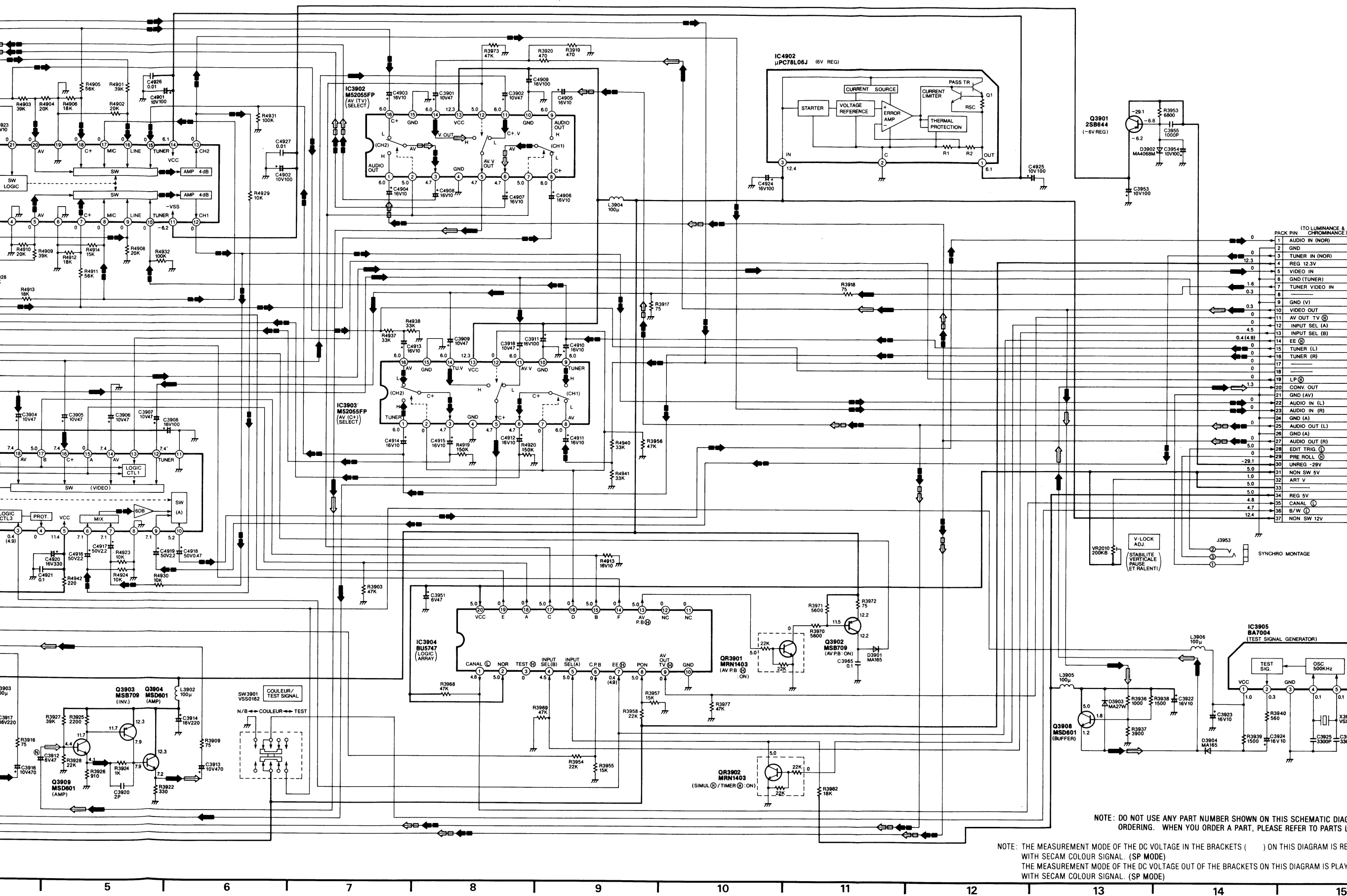
 VIDEO MAIN SIGNAL PATH IN REC MODE
 VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

 AUDIO MAIN SIGNAL PATH IN REC MODE
 AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

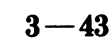


 VIDEO MAIN SIGNAL PATH IN REC MODE
 VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

 AUDIO MAIN SIGNAL PATH IN REC MODE
 AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

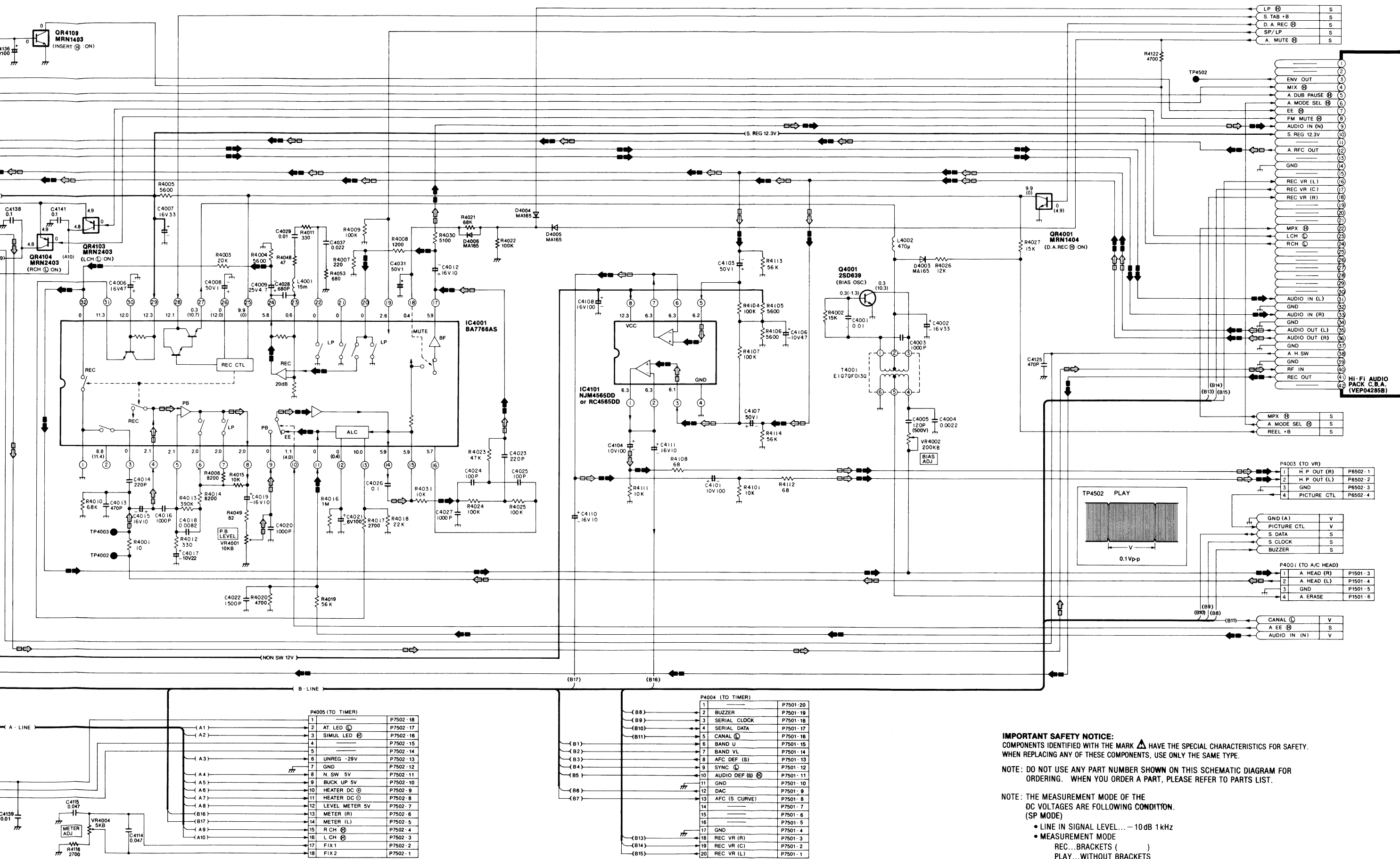


MAIN SIGNAL PATH IN PLAYBACK MODE



SIGNAL PATH IN REC MODE

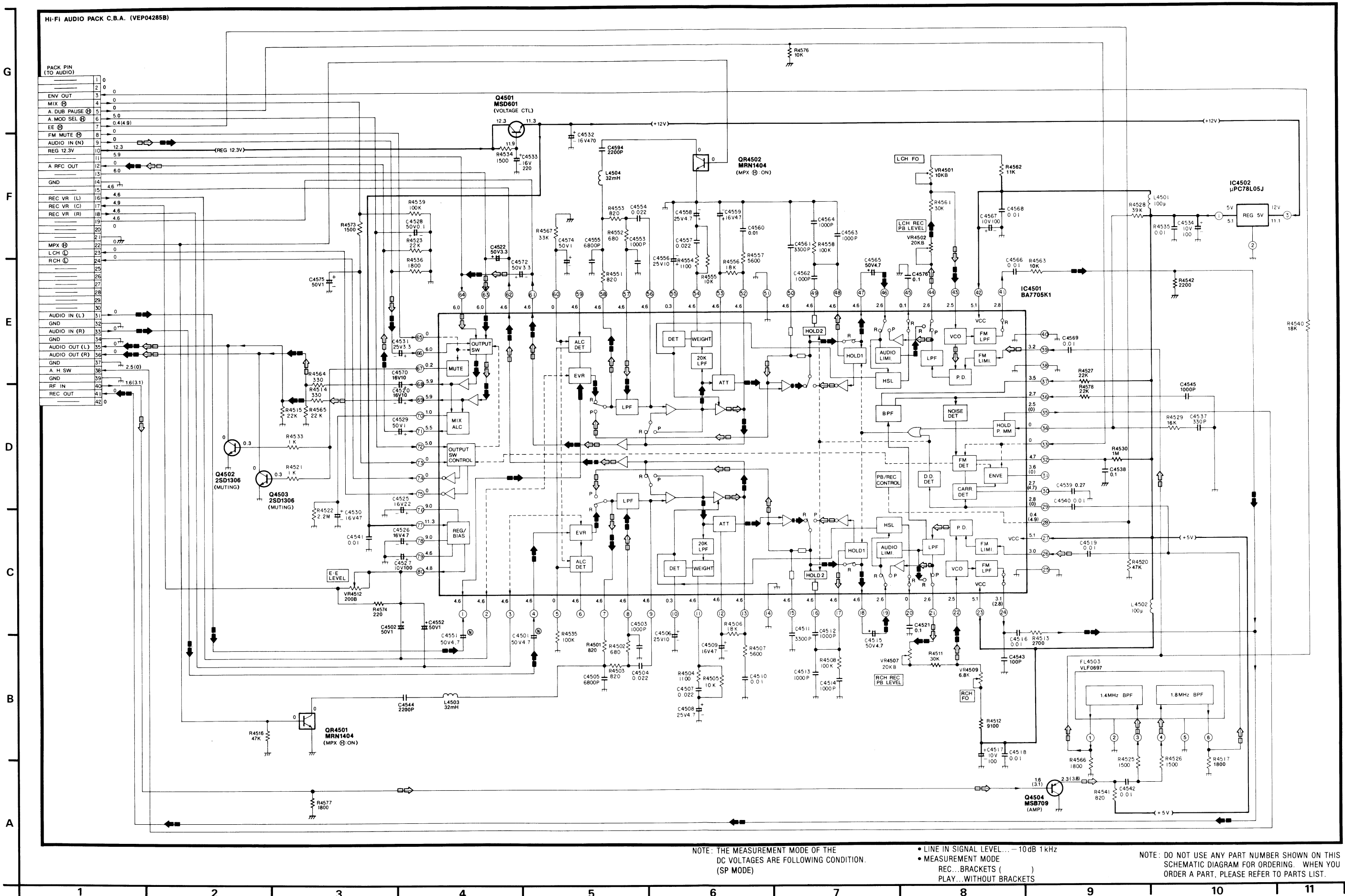
MAIN SIGNAL PATH IN PLAYBACK MODE



IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK Δ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

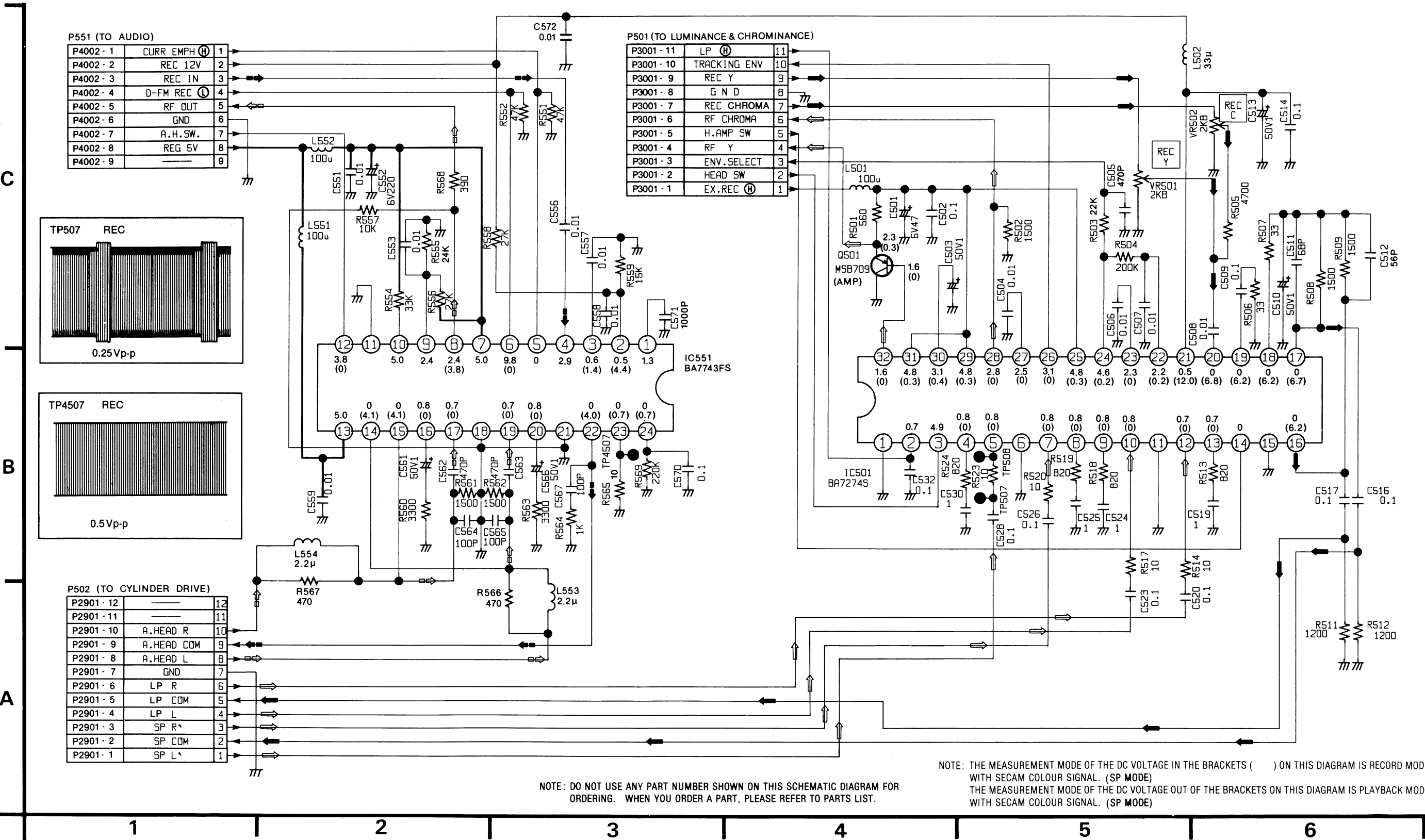
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGES ARE FOLLOWING CONDITION.
(SP MODE)
• LINE IN SIGNAL LEVEL... -10dB 1kHz
• MEASUREMENT MODE
REC...BRACKETS ()
PLAY...WITHOUT BRACKETS



3-19. HEAD AMP SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE
Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

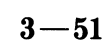
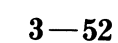


SIGNAL PATH IN PLAYBACK MODE

C

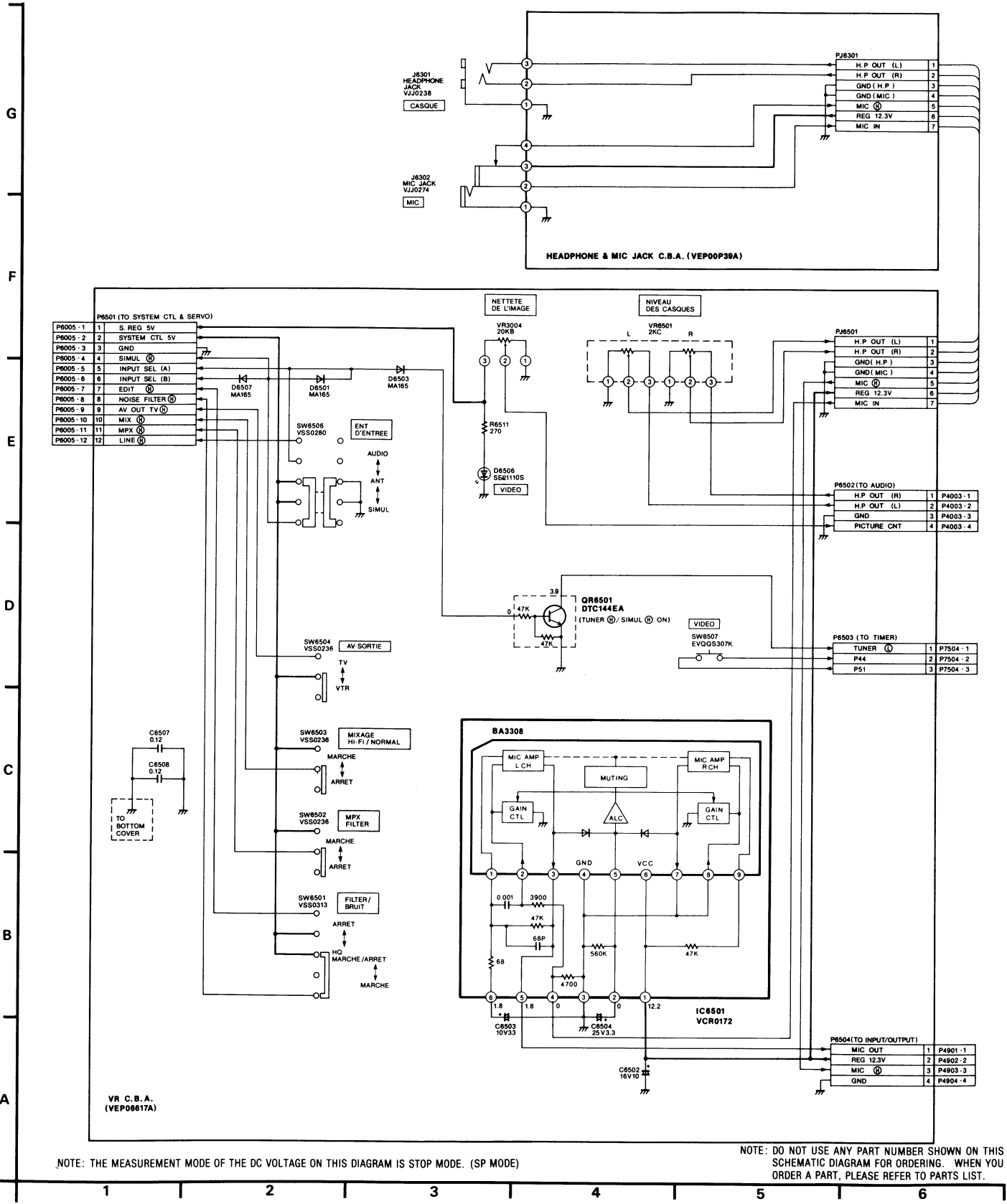


IC501 (BA7274S)

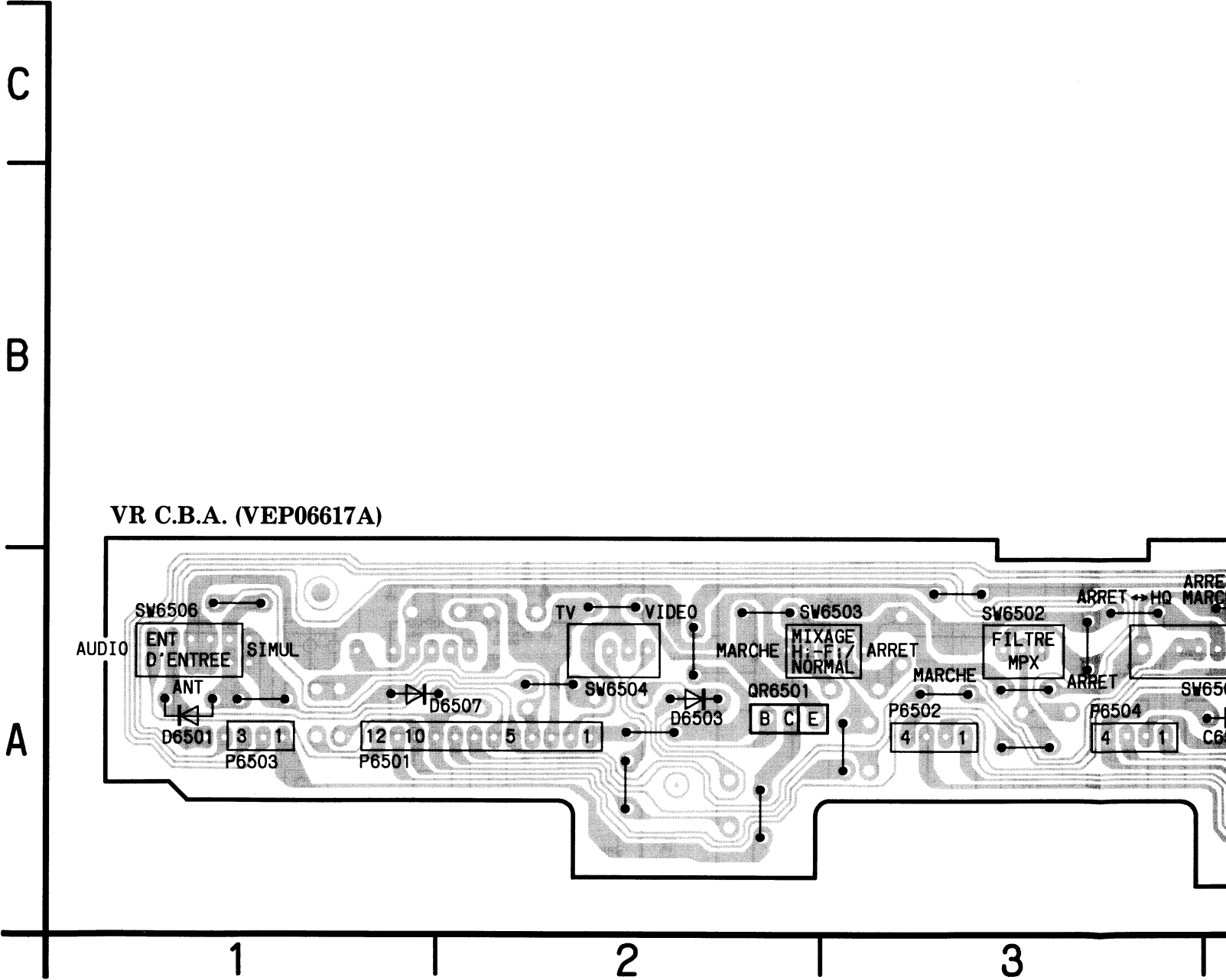
**IC551 (BA7743FS)**

ADDRESS INFORMATION

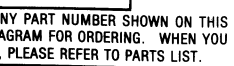
3-21. VR SCHEMATIC DIAGRAM



3-22. VR C.B.A. (VEP06617A)



ADDRESS INFORMATION

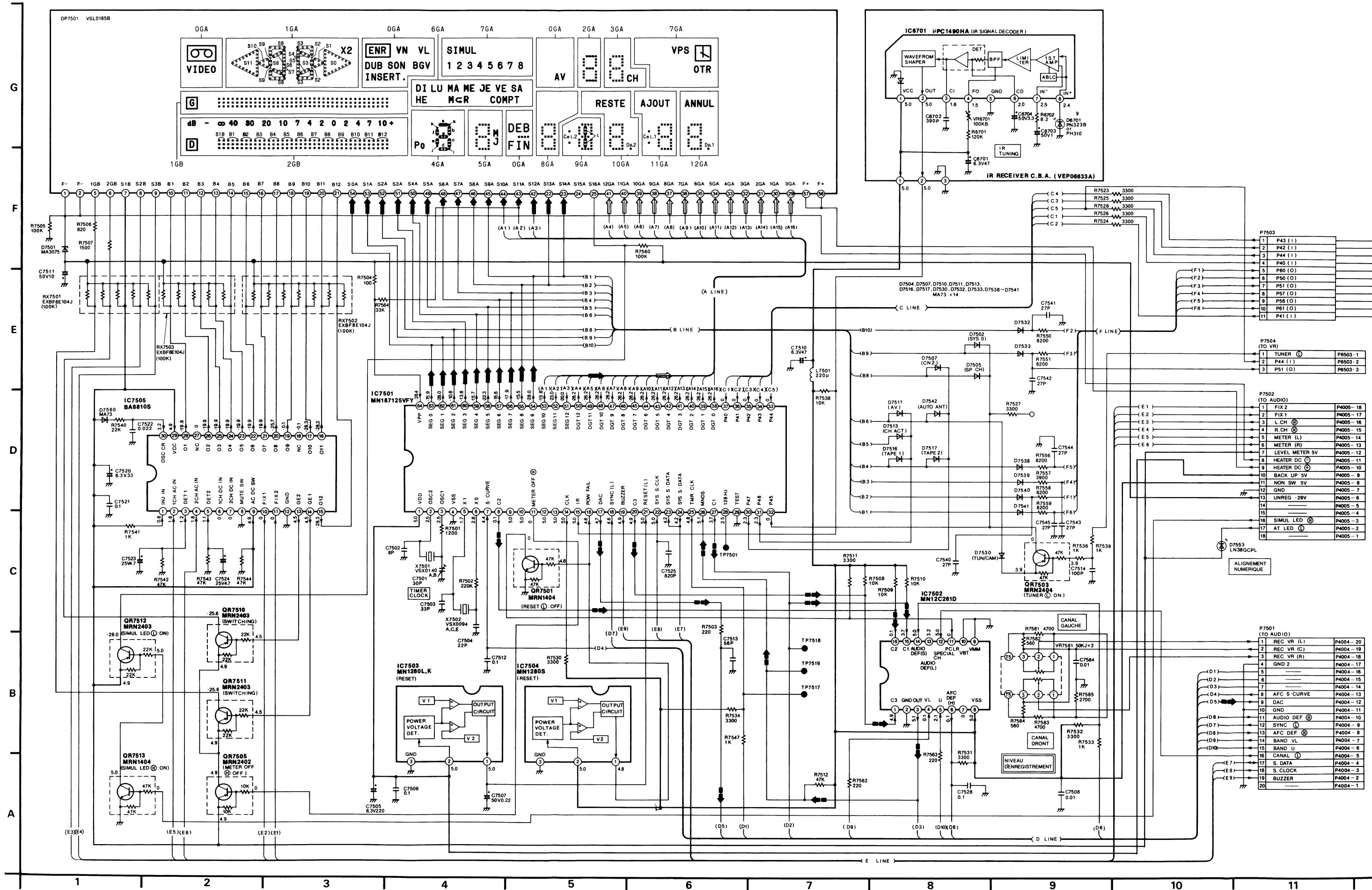


3-23. TIMER SCHEMATIC DIAGRAM

← SEGMENT CONTROL SIGNAL

← GRID CONTROL SIGNAL

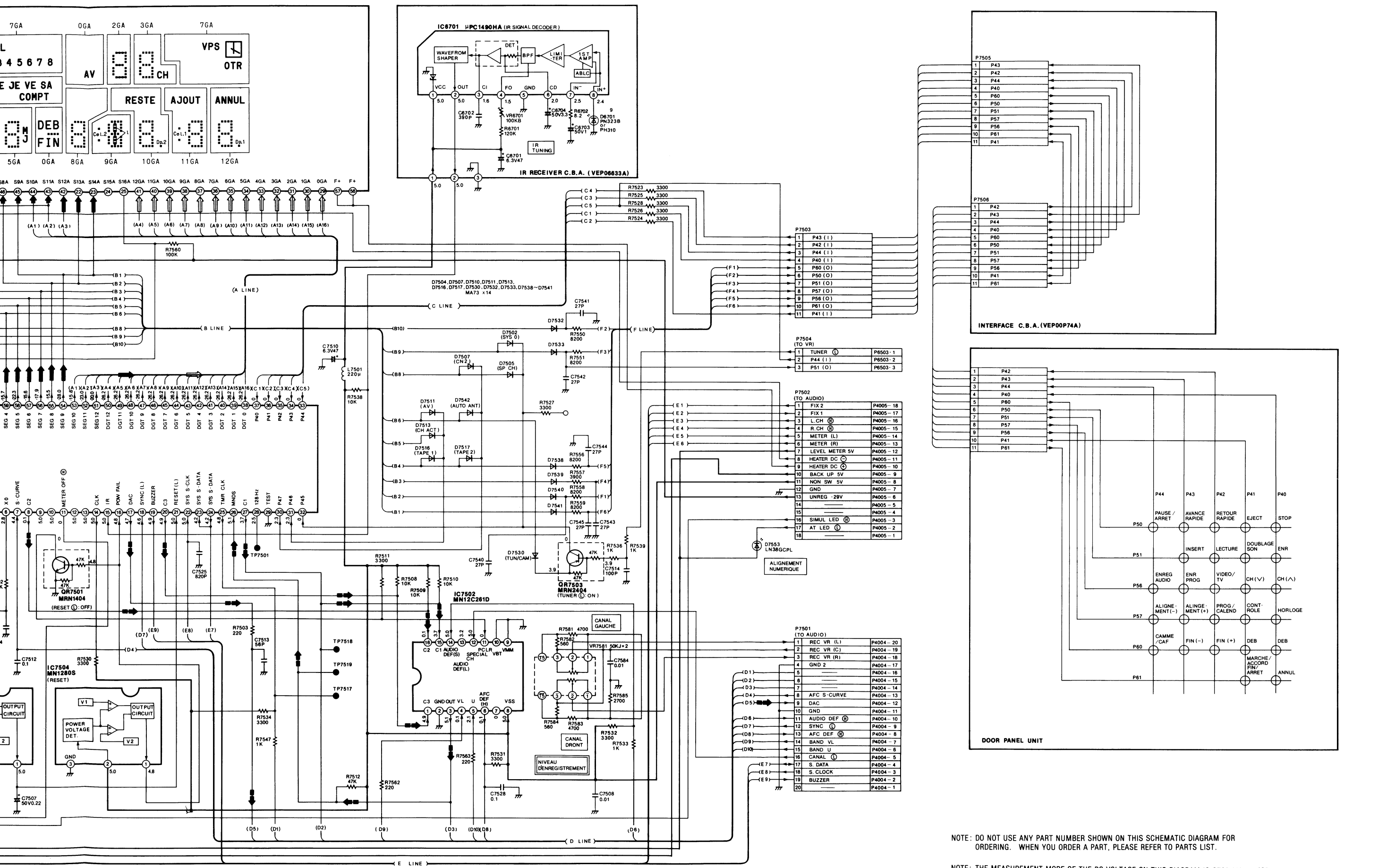
← TUNE CONTROL SIGNAL



MENT CONTROL SIGNAL

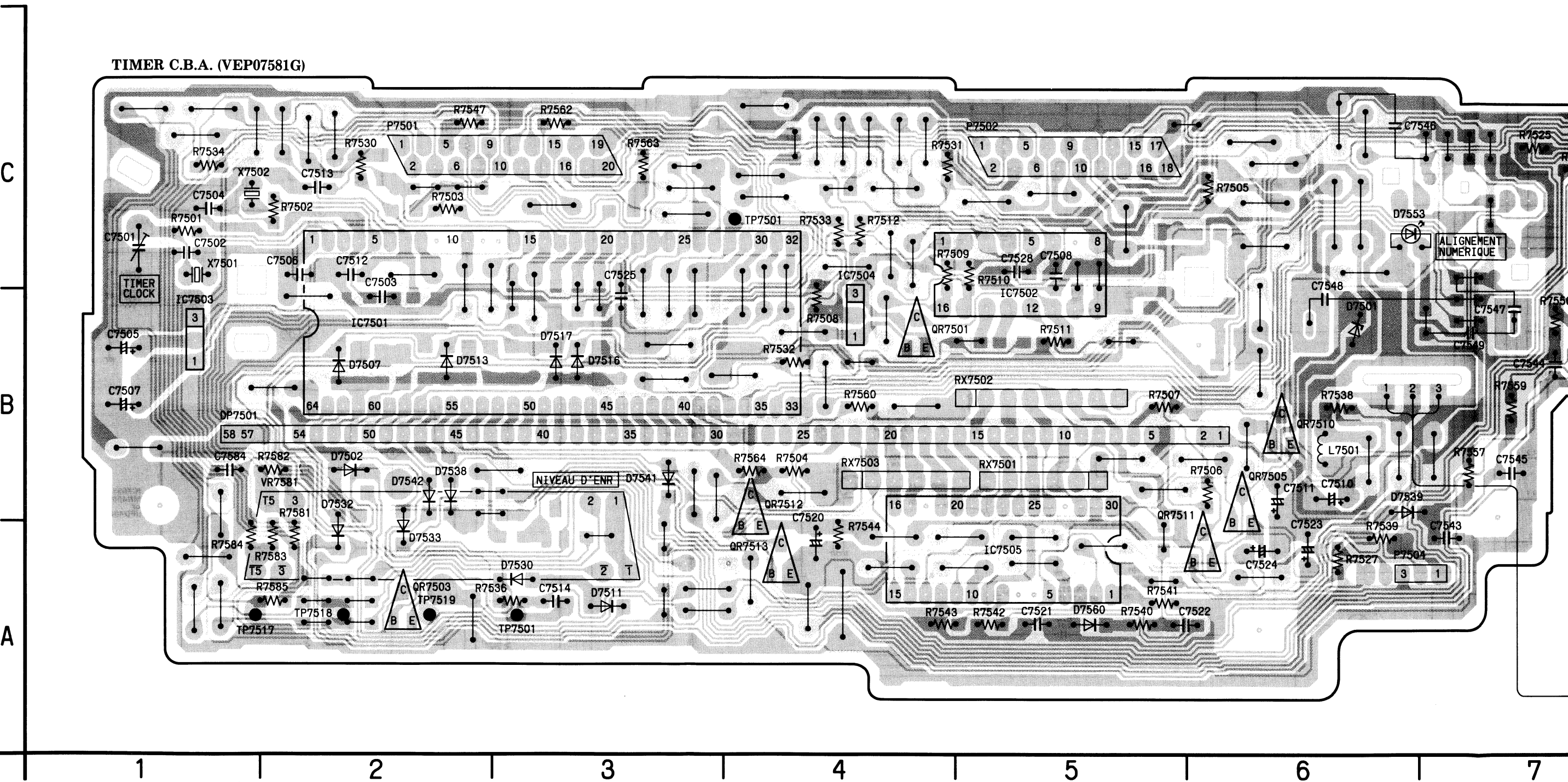
← GRID CONTROL SIGNAL

← TUNE CONTROL SIGNAL



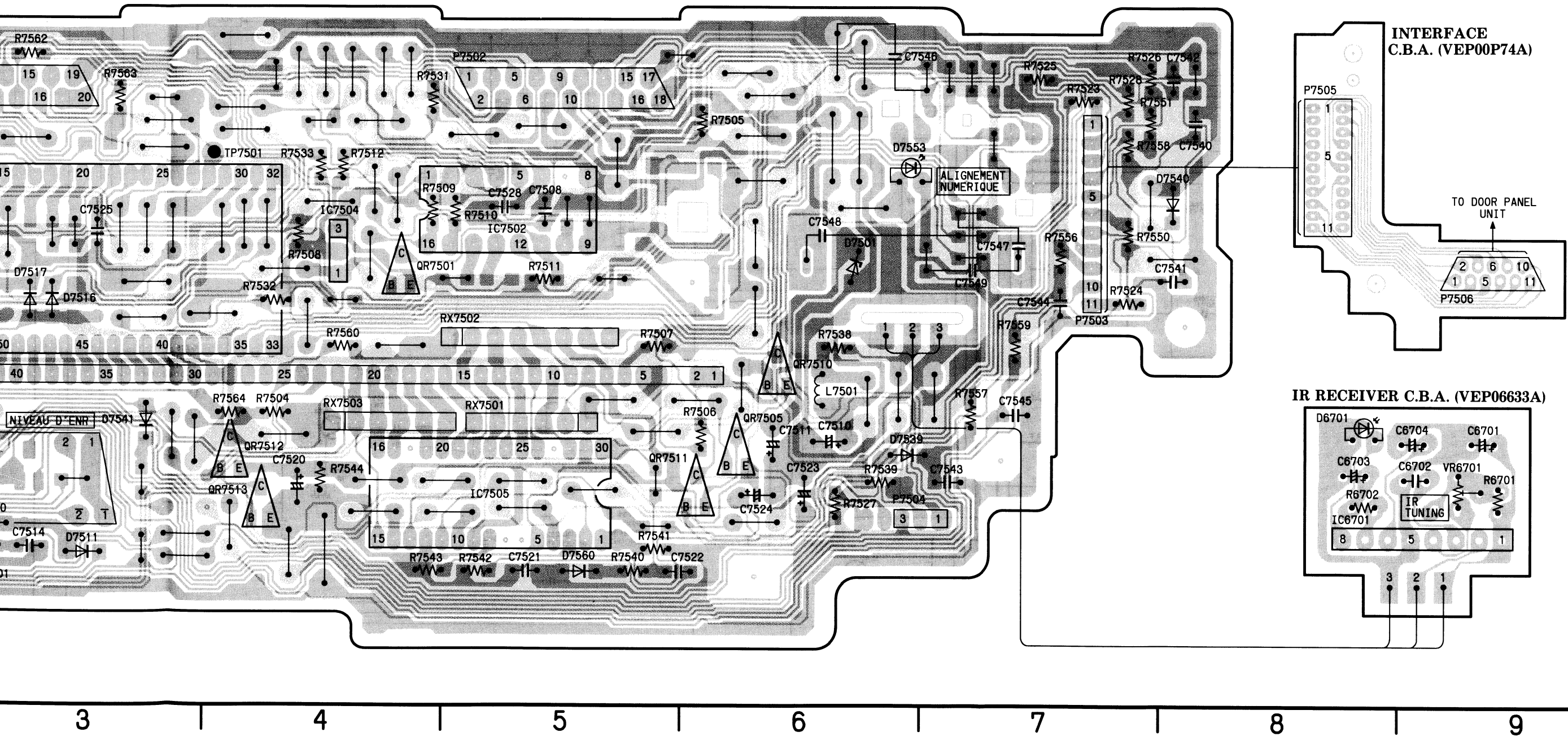
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (SP MODE)



TIMER C.B.A.					
Transistor & Resistor		IC7502	B-5	Adjustment	
QR7501	B-4	IC7503	B-1	C7501	C-1
QR7503	A-2	IC7504	C-4	VR6701	A-9
QR7505	B-6	IC7505	A-5	VR7581	B-2
QR7510	B-6	Test Point		Connector	
QR7511	A-6	TP7501	A-3	P7501	C-2
QR7512	A-4	TP7501	C-4	P7502	C-5
QR7513	A-4	TP7517	A-1	P7503	B-7
Integrated Circuit		TP7518	A-2	P7504	A-6
IC8701	A-8	TP7519	A-2	P7505	C-8
IC7501	B-2			P7506	B-9

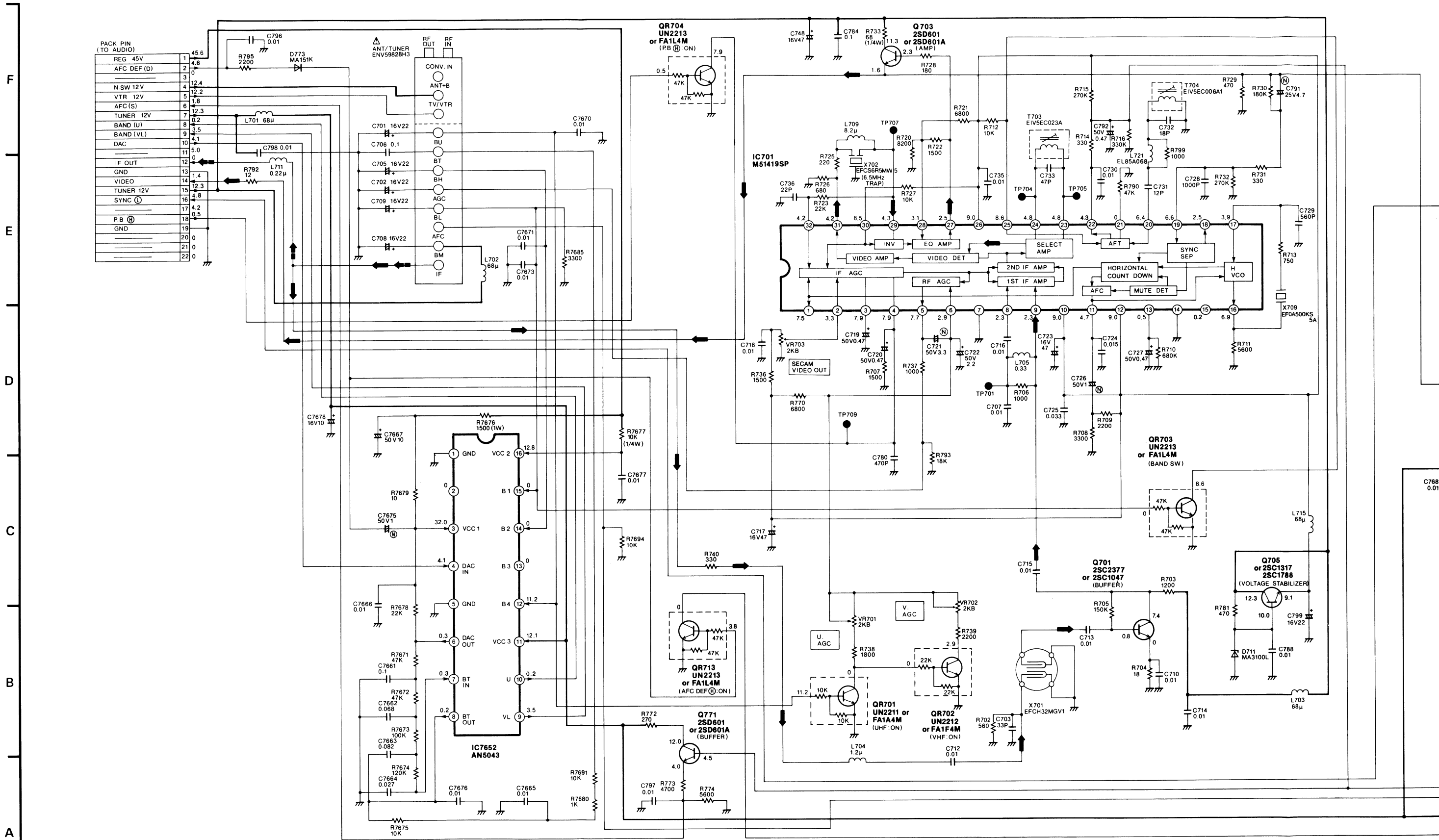
ADDRESS INFORMATION



3-25. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

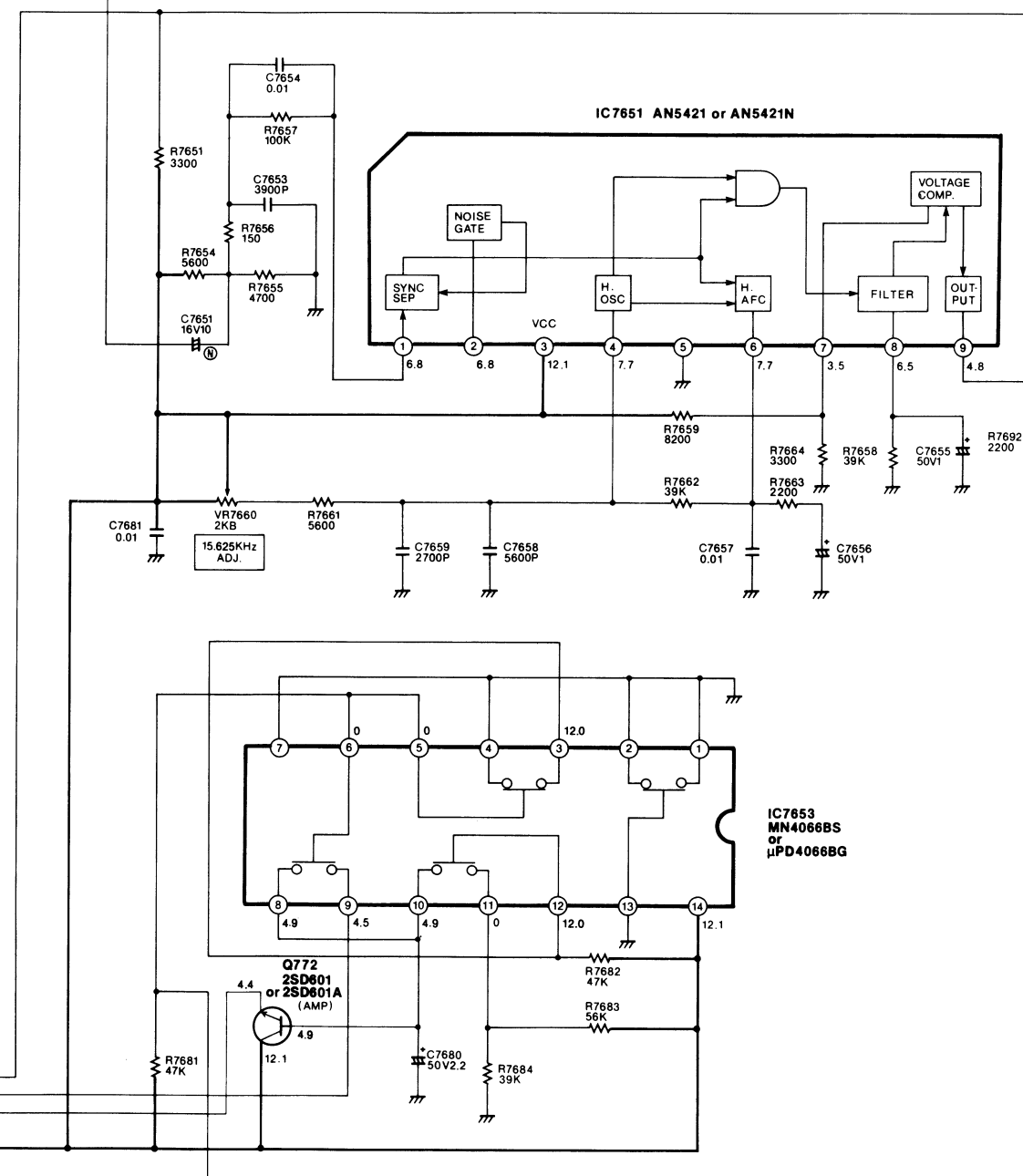
VIDEO SIGNAL PATH

AUDIO SIGNAL PATH

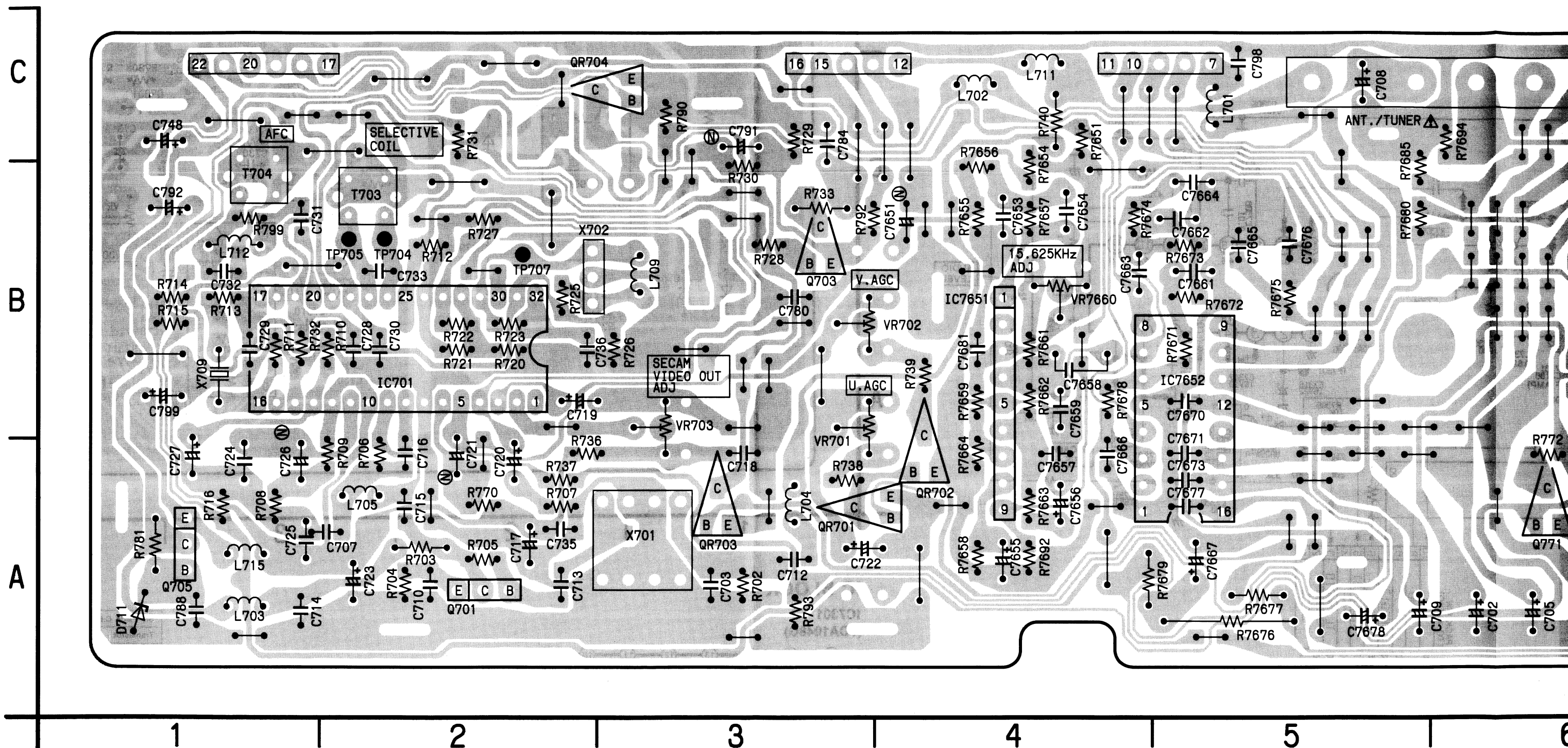


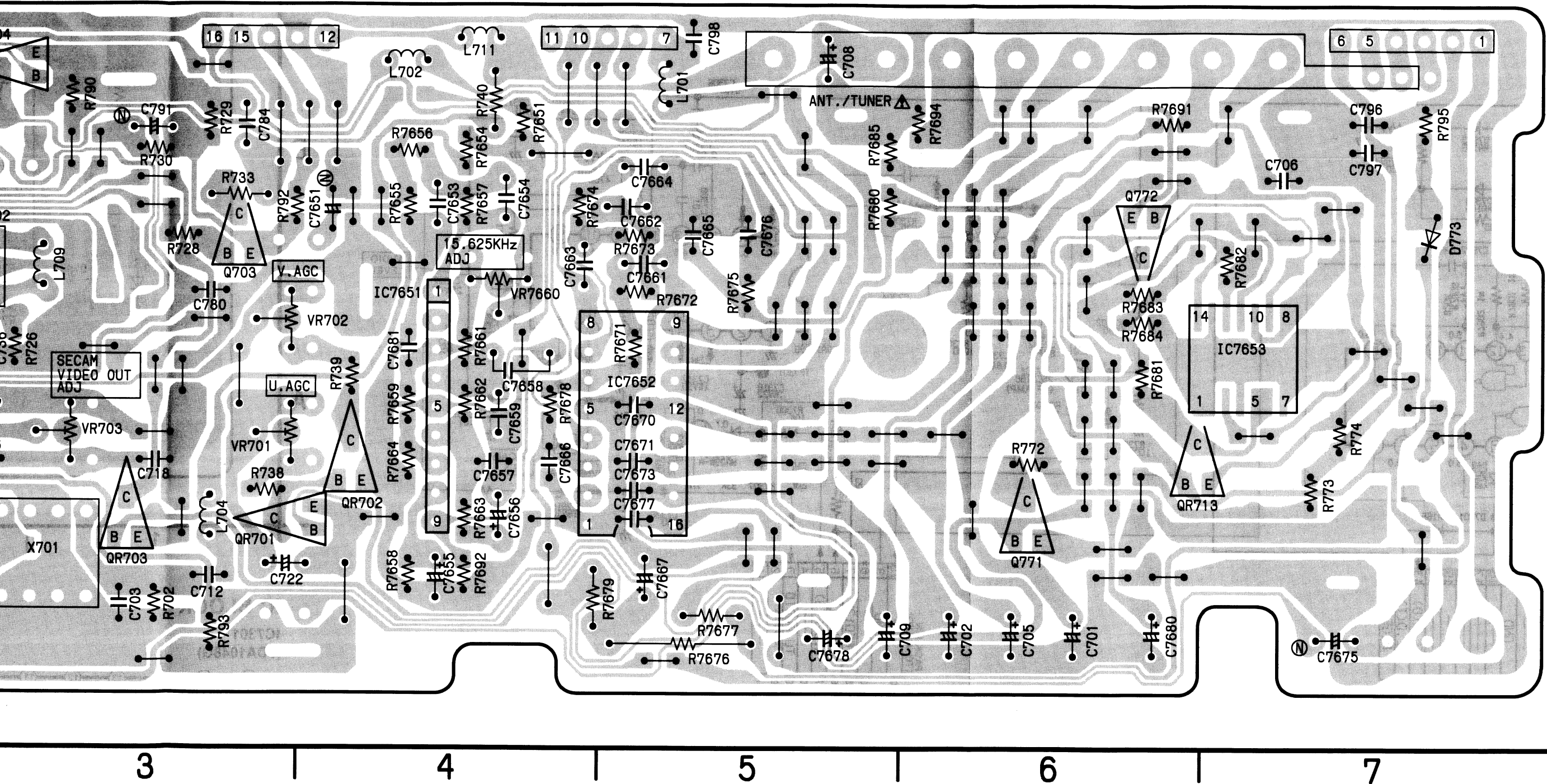
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK Δ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: THE MEASUREMENT MODE



NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.



TV DEMODULATOR PACK
C.B.A.

Transistor

Q701	A-2
Q703	B-4
Q705	A-1
Q771	A-6
Q772	B-6

Transistor & Resistor

QR701	A-3
QR702	A-4
QR703	A-3
QR704	C-3
QR713	B-7

Integrated Circuit

IC701	B-2
IC7651	B-4
IC7652	B-5
IC7653	B-7

Test Point

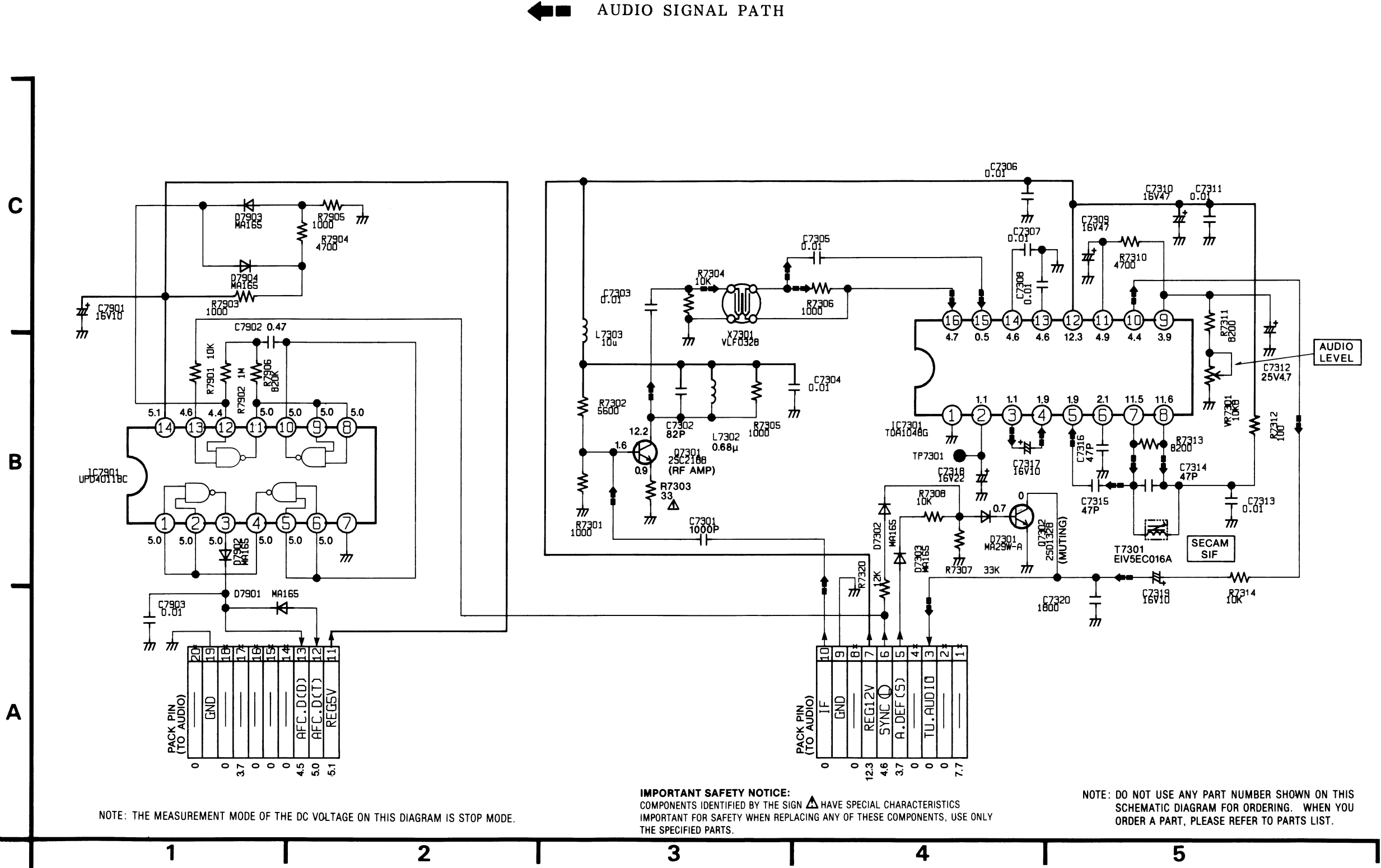
TP704	B-2
TP705	B-2
TP707	B-2

Adjustment

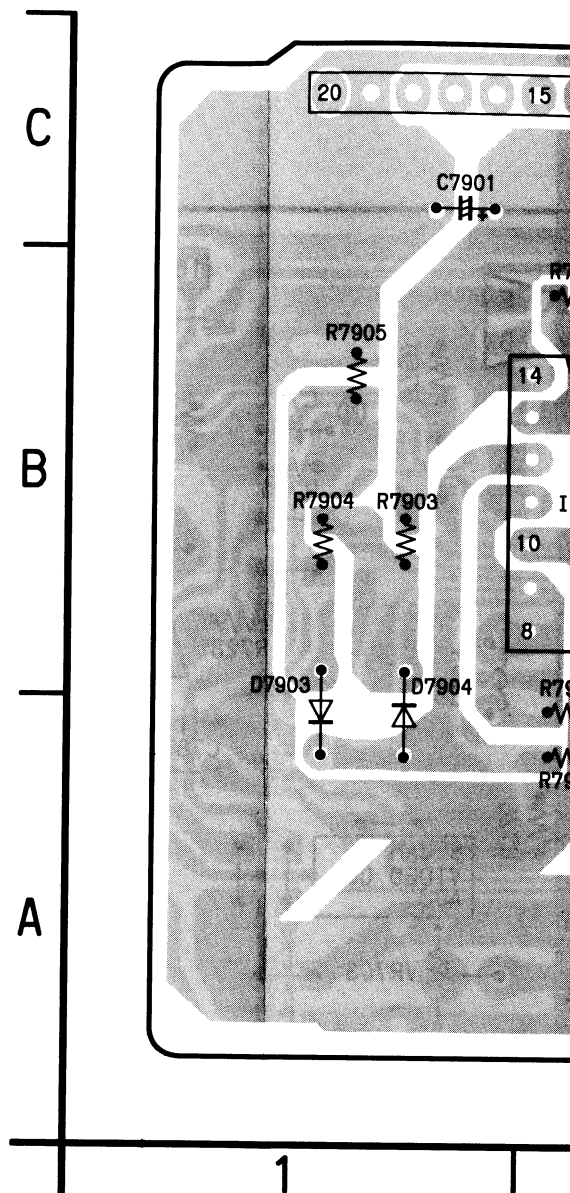
T703	B-2
T704	B-1
VR701	B-3
VR702	B-3
VR703	B-3
VR7660	B-4

ADDRESS INFORMATION

3-27. SIF PACK SCHEMATIC DIAGRAM

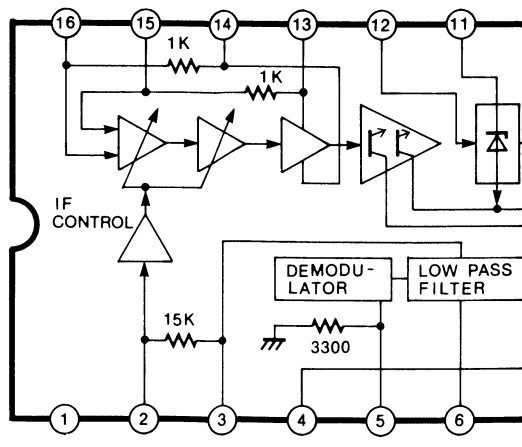


3-28. SIF PACK C.B.A. (VEPO)

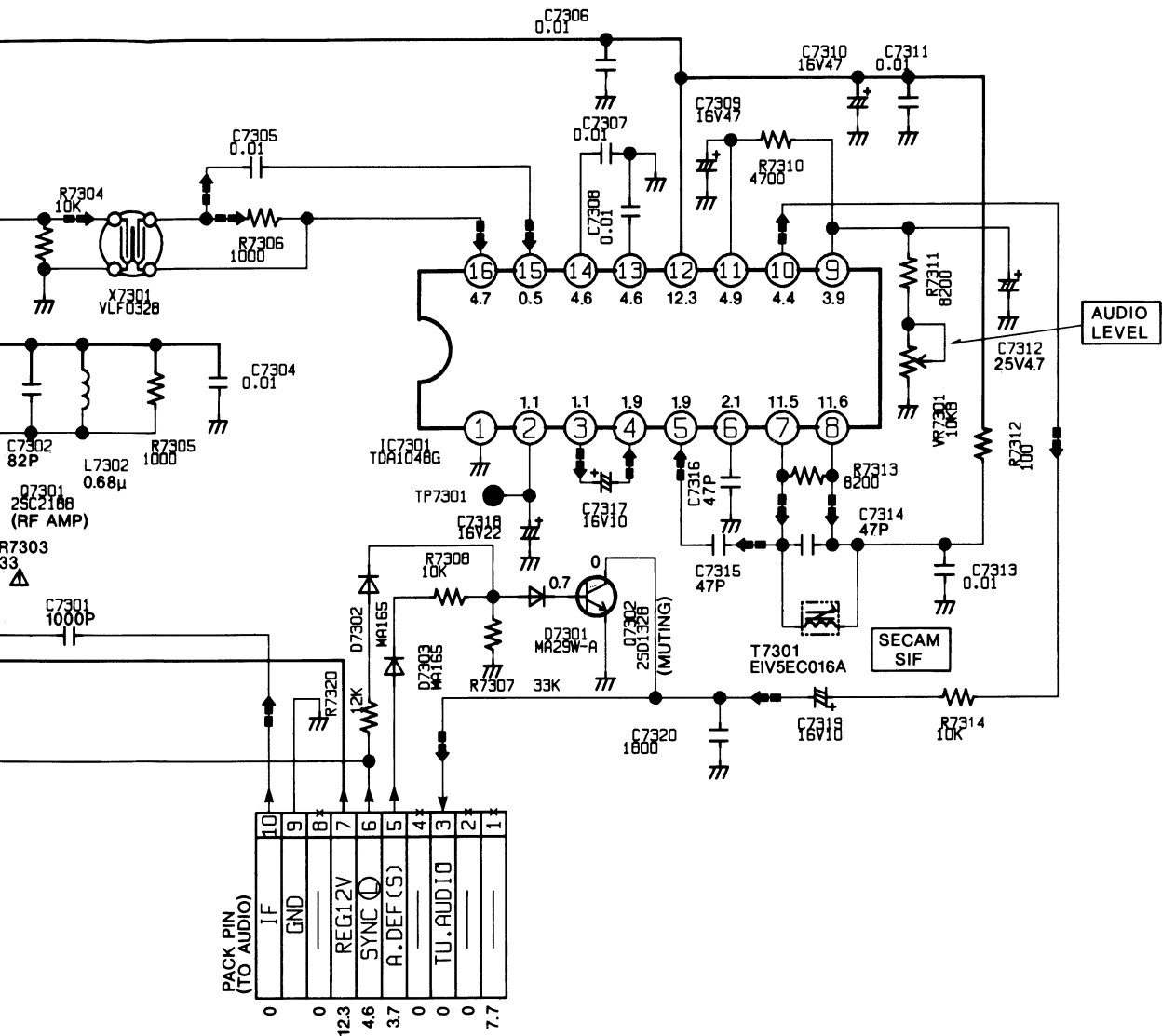


IC BLOCK

IC7301
(TDA1048G)

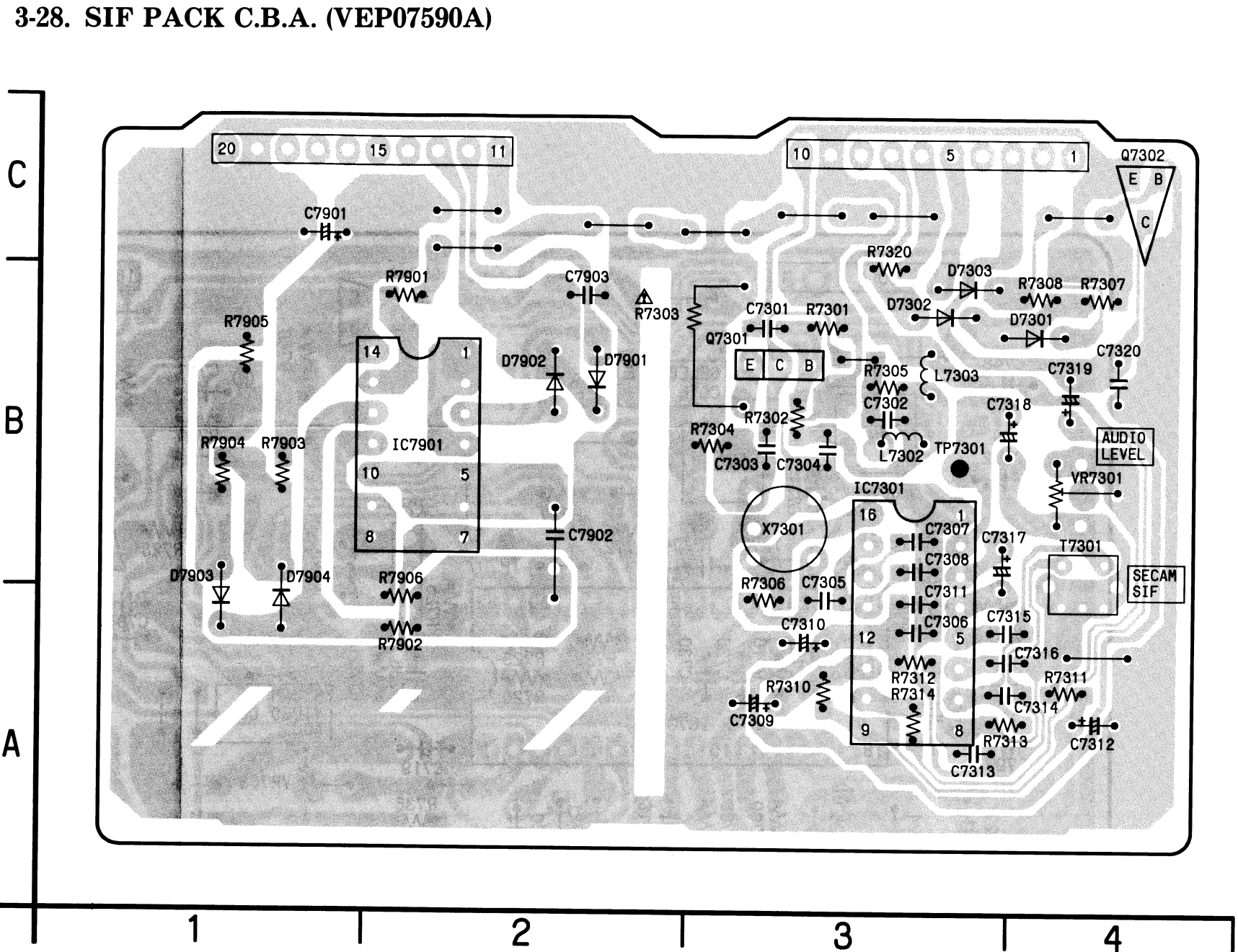


SIGNAL PATH



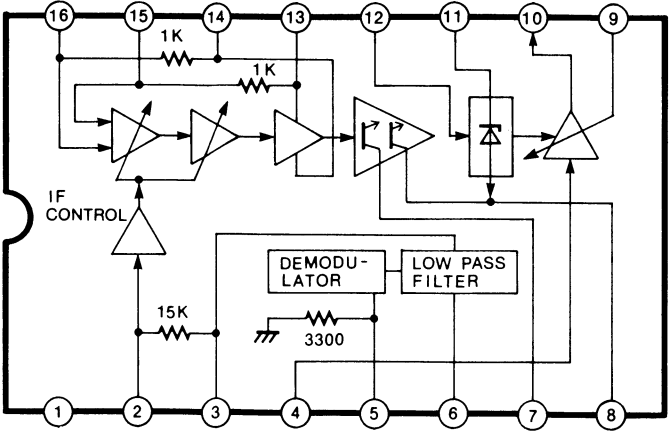
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED BY THE SIGN  HAVE SPECIAL CHARACTERISTICS
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY
SPECIFIED PARTS.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS
SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU
ORDER A PART, PLEASE REFER TO PARTS LIST.



IC BLOCK

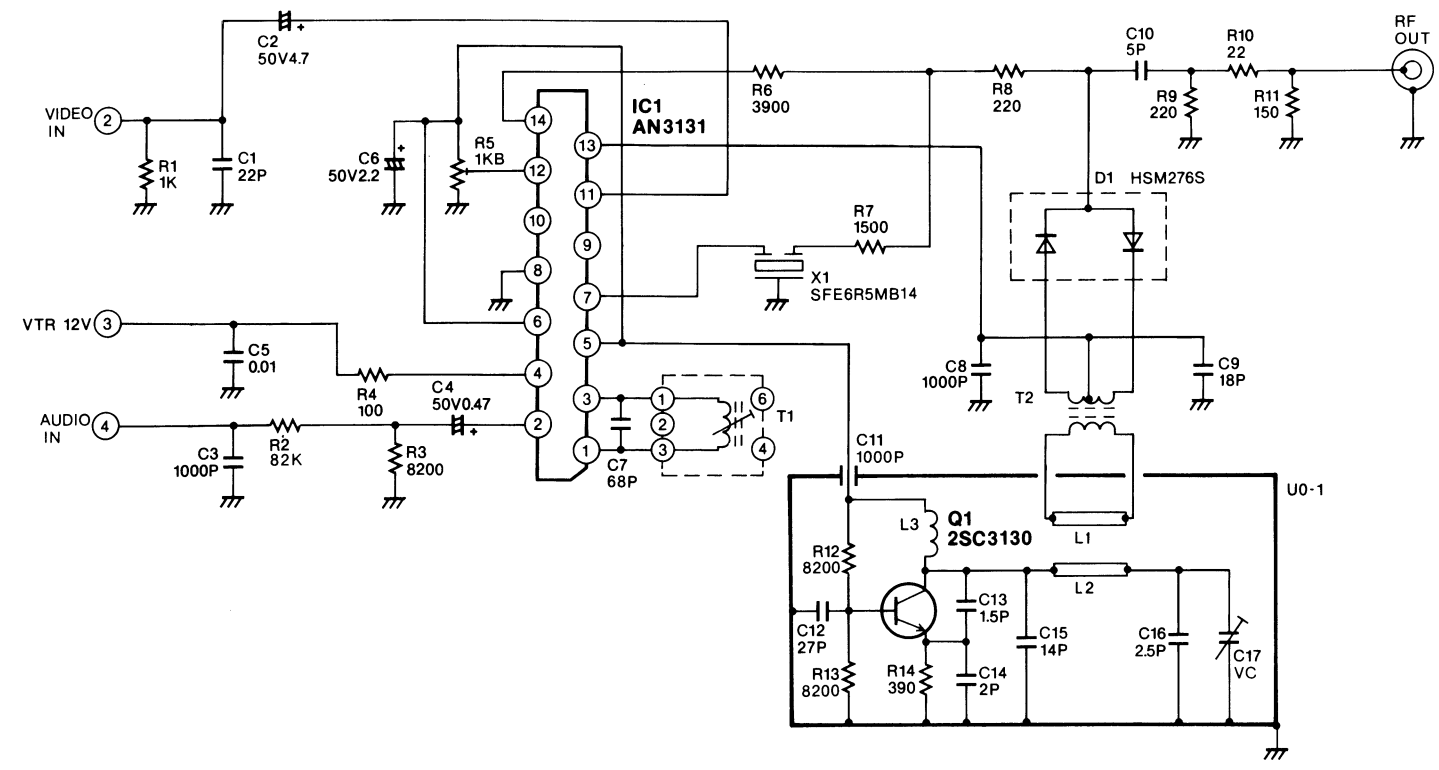
IC7301
(TDA1048G)



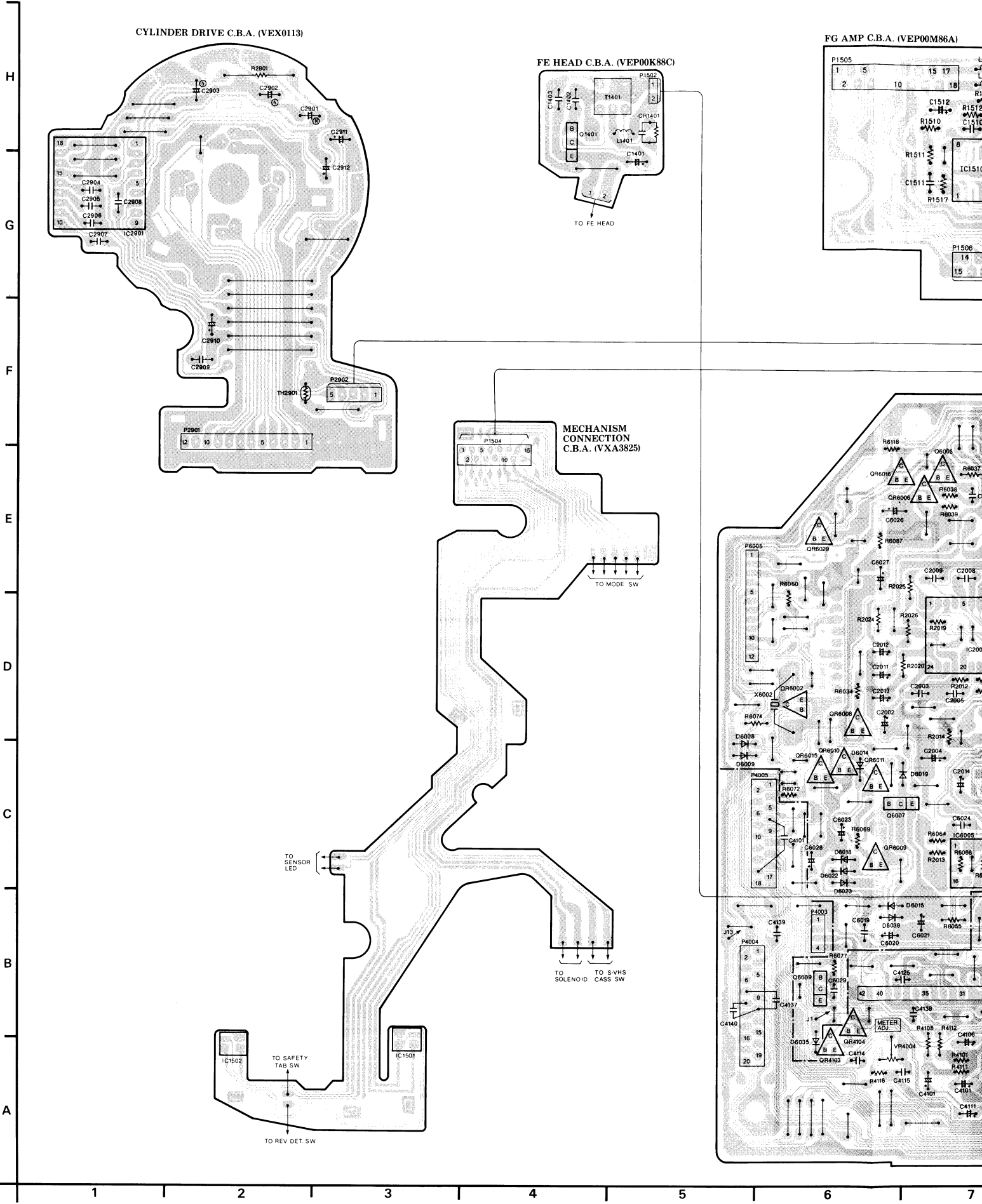
SIF PACK C.B.A.		
Transistor		
Q7301		B-3
Q7302		C-4
Integrated Circuit		
IC7301		B-3
IC7901		B-2
Test Point		
TP7301		B-3
Adjustment		
T7301		B-4
VR7301		B-4

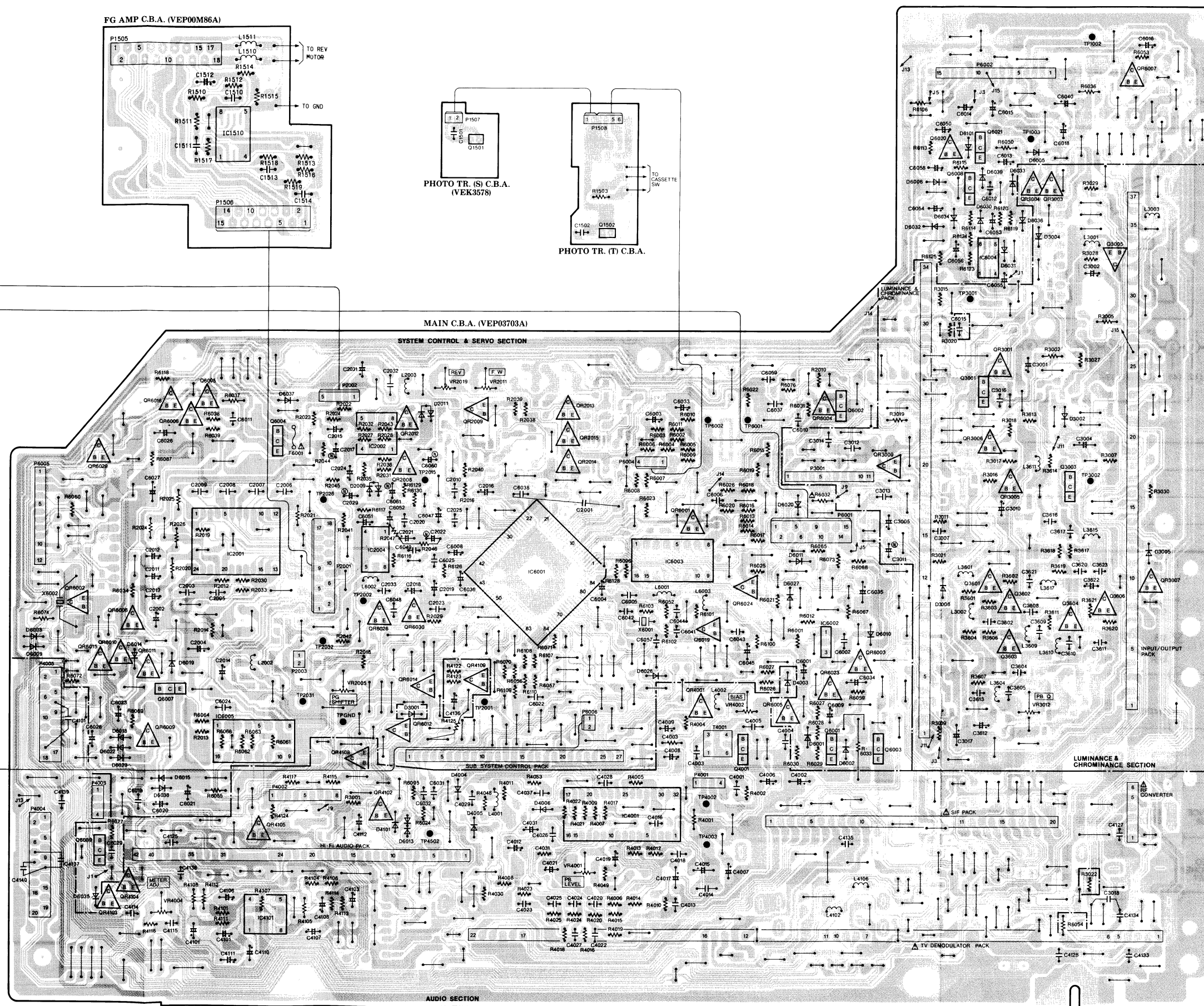
ADDRESS INFORMATION

3-29. RF CONVERTER SCHEMATIC DIAGRAM (ENC17963)



3-30. MAIN C.B.A. (VEP03703A)





SYSTEM CONTROL & SERVO Section			
Transistor		IC2001	
Q1401	H-4	IC2002	D-7
Q1501	G-9	IC2004	E-8
Q1502	G-10	IC2901	G-1
Q6001	C-12	IC6001	D-9
Q6002	E-12	IC6002	D-12
Q6003	C-12	IC6003	D-10
Q6004	E-7	IC6004	F-13
Q6005	E-7	IC6005	C-7
Q6007	C-6	Test Point	
Q6008	G-13	TP1002	H-14
Q6009	B-6	TP1003	G-13
Q6019	D-11	TP2001	C-9
Q6020	G-13	TP2002	D-8
Q6021	G-13	TP2015	E-8
Transistor & Resistor		TP2026	E-8
QR2008	E-8	TP2031	C-7
QR2009	E-9	TP2032	C-8
QR2012	E-8	TP6001	E-11
QR2013	E-10	TP6002	E-11
QR2014	E-10	TP GND	C-8
QR2015	E-10	Adjustment	
QR6001	D-10	VR2005	C-8
QR6002	D-6	VR2011	E-9
QR6003	C-12	VR2019	E-9
QR6004	E-12	Connector	
QR6005	C-11	P1502	H-5
QR6006	E-7	P1504	E-4
QR6007	H-14	P1505	H-6
QR6008	D-6	P1506	G-7
QR6009	C-6	P1507	G-9
QR6010	C-6	P1508	G-10
QR6011	C-6	P2001	D-8
QR6012	C-8	P2002	E-8
QR6014	C-8	P2003	C-7
QR6015	C-6	P2901	E-2
QR6016	E-6	P2902	E-3
QR6023	C-12	P6001	D-12
QR6024	D-11	P6002	H-13
QR6026	D-8	P6004	E-10
QR6029	E-6	P6005	E-6
QR6030	D-8	P6006	C-10
Integrated Circuit			
IC1501	A-3		
IC1502	A-2		
IC1510	G-7		

ADDRESS INFORMATION

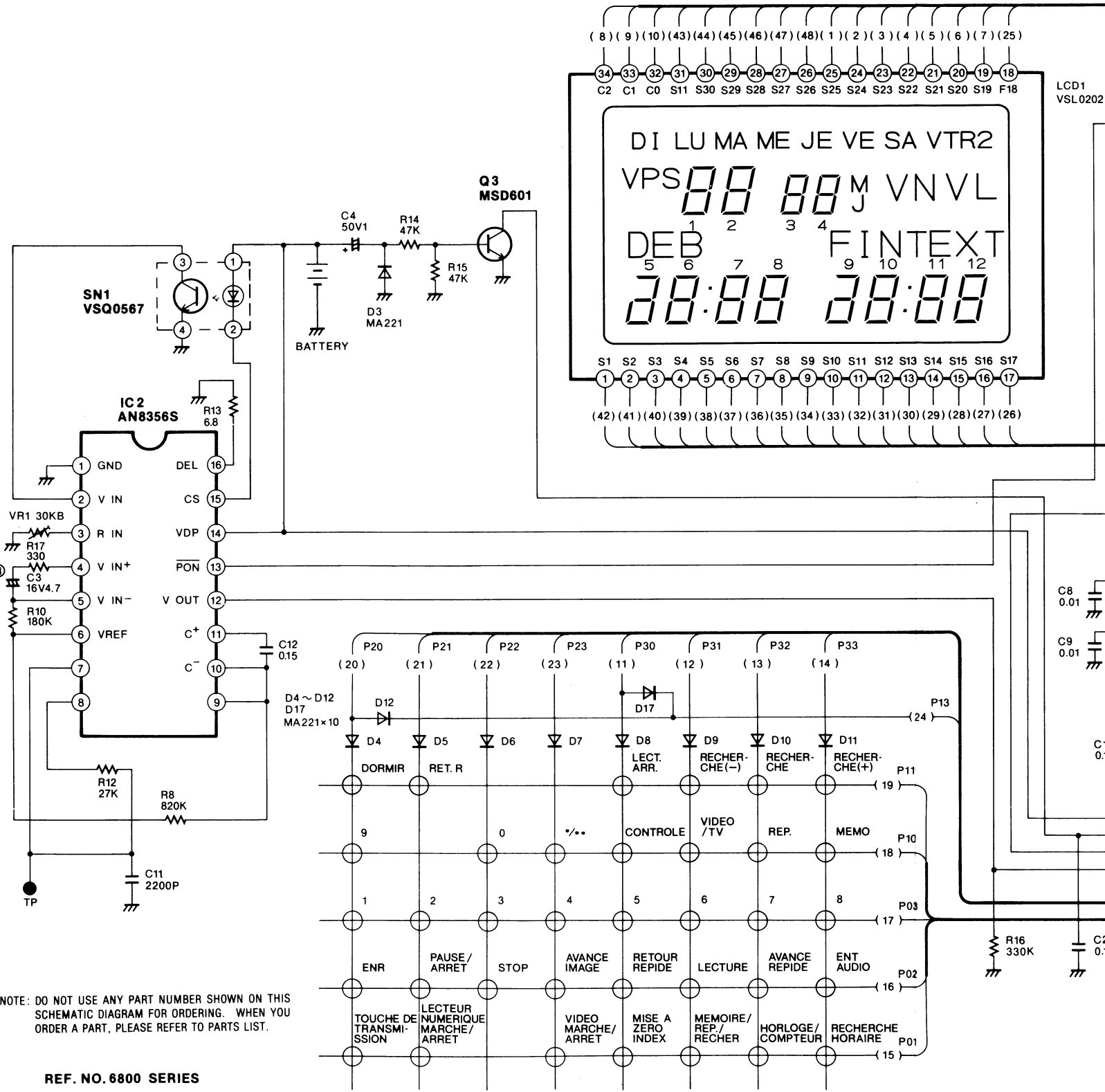
LUMINANCE & CHROMINANCE Section	
Transistor	
Q3001	E-13
Q3003	E-13
Q3005	F-14
Q3601	D-13
Q3602	D-13
Q3603	D-13
Q3604	D-13
Q3606	D-14
Transistor & Resistor	
QR3001	E-13
QR3003	G-13
QR3004	G-13
QR3005	E-13
QR3006	E-13
QR3007	D-14
QR3009	E-12
Test Point	
TP3001	F-13
TP3002	E-14
Adjustment	
VR3012	C-13
Connector	
P3001	E-12

ADDRESS INFORMATION

AUDIO Section	
Transistor	
Q4001	C-11
Transistor & Resistor	
QR4001	C-11
QR4102	B-8
QR4103	A-6
QR4104	B-6
QR4105	B-7
QR4108	C-8
QR4109	C-9
Integrated Circuit	
IC4001	B-10
IC4101	A-7
Test Point	
TP4002	B-11
TP4003	B-11
TP4502	B-8
Adjustment	
VR4001	B-10
VR4002	C-11
VR4004	A-7
Connector	
P4001	B-11
P4002	B-7
P4003	B-6
P4004	B-6
P4005	C-6

ADDRESS INFORMATION

3-31. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) SCHEMATIC DIAGRAM
— UNIT NO.: VEQ1092 —

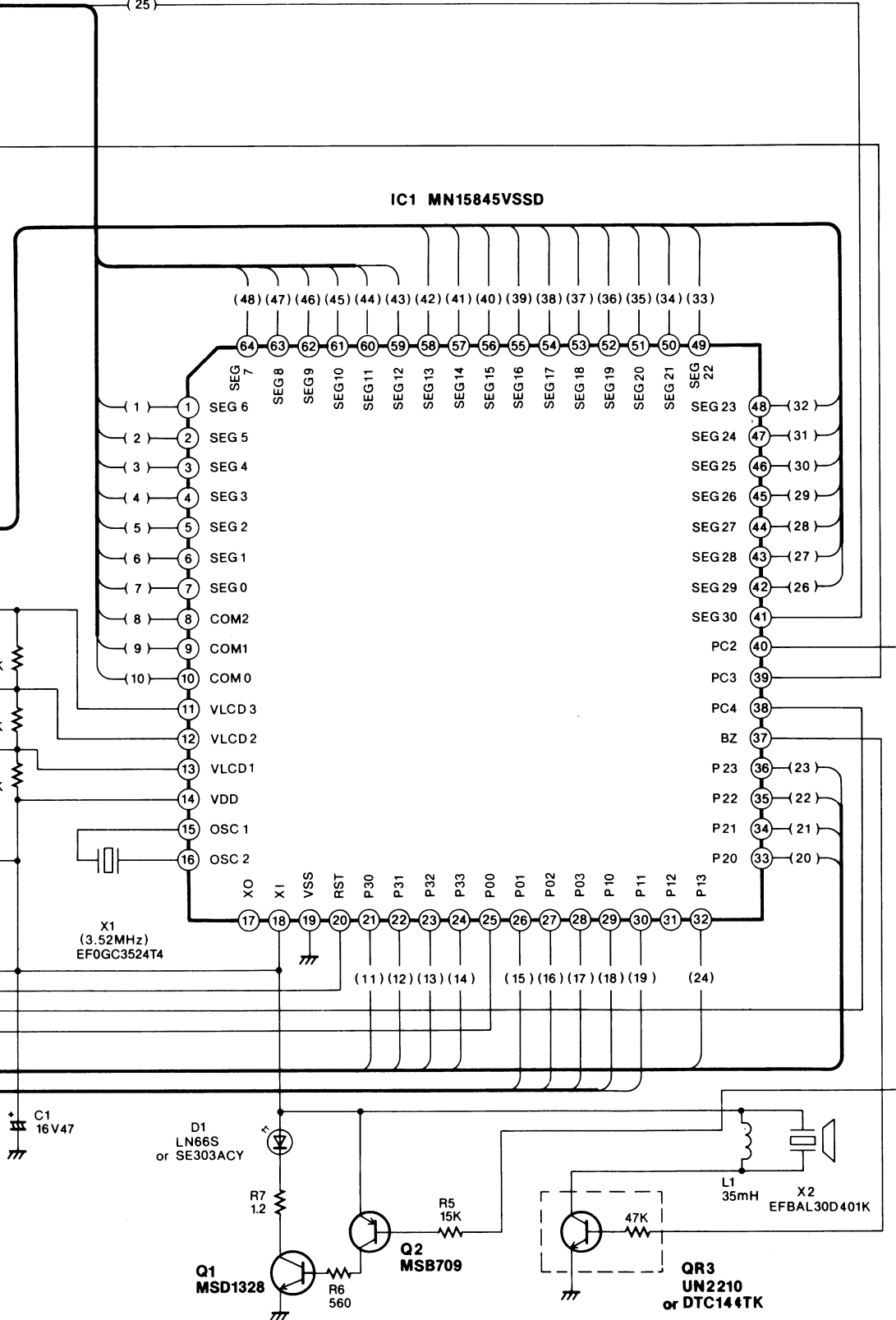


NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

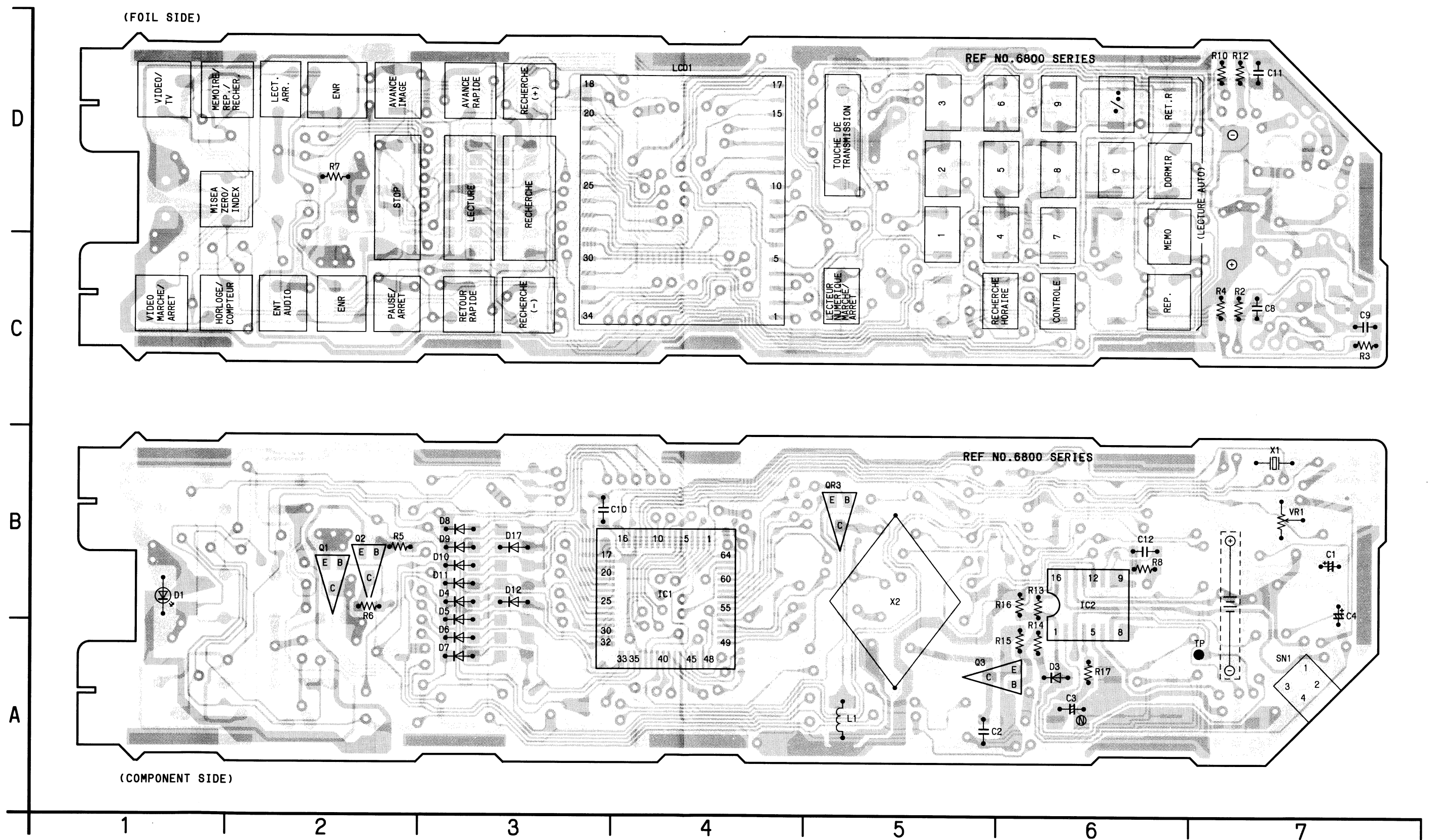
REF. NO. 6800 SERIES

Back Page:
MAIN C.B.A. Section

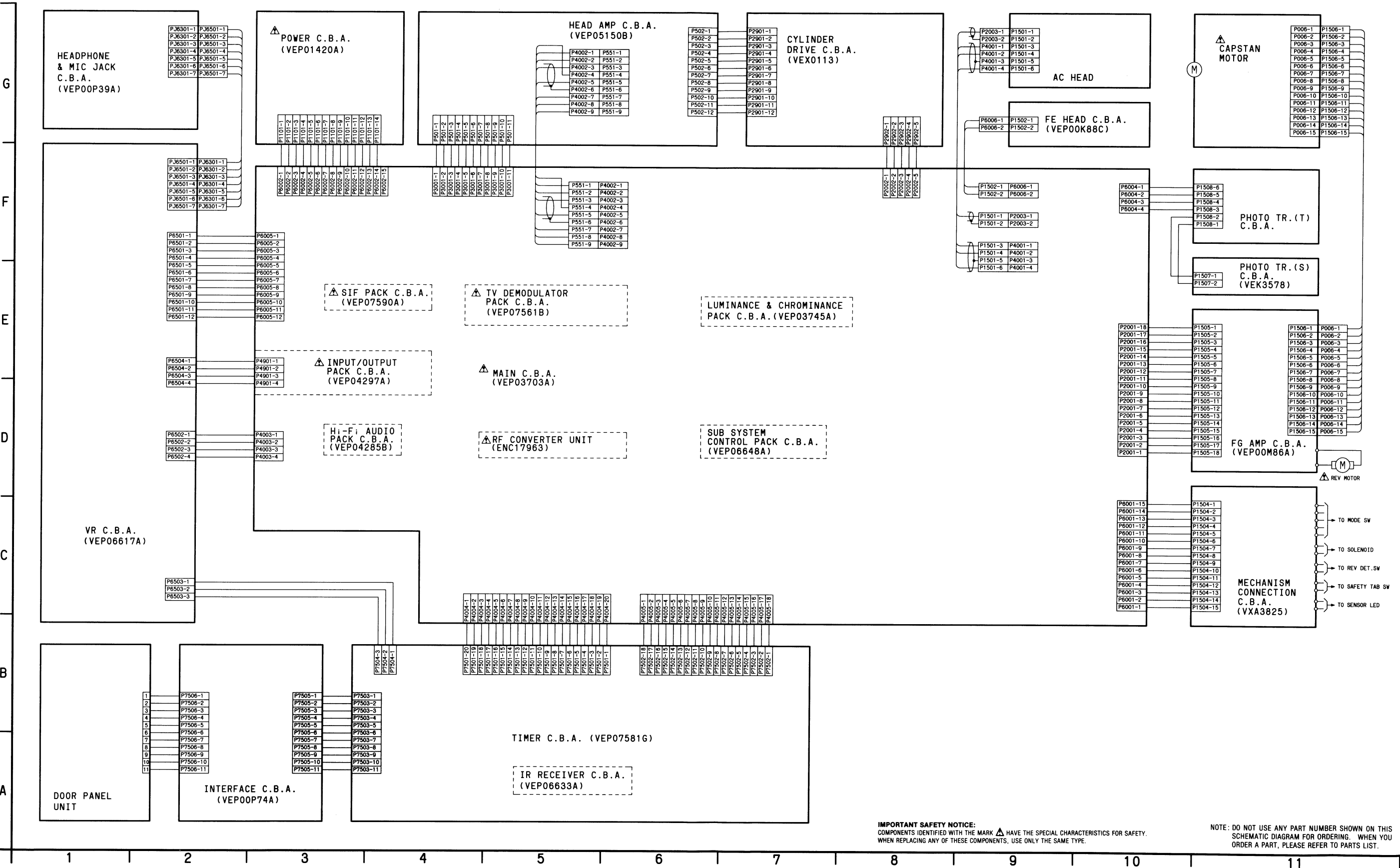
3-32. REMO



3-32. REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) C.B.A. (VEP66125A)



3-33. INTERCONNECTION SCHEMATIC DIAGRAM



IMPORTANT SAFETY NOTICE: COMPONENTS IDENTIFIED WITH THE MARK HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-34. ICs & TRs INFORMATION

MN1280L
MN1280R
MN1280S

μPC78L05J
μPC78L06J

LM358P
LM393P
MSM6965-3RS

M5201L
μPC1490HA

MC14519BCP
MC14052BCP
TDA1048G

STK5391

PC111

MN187125VFY

VCR0172

M51293FD
BA7743FS

AN3334K
AN3495K
M51366SP
BA6810S

AN5043
MN12C261D

MN4066BS
M52055FP

AN5421

SE013E

2SD893
2SD592

AN6609

MN6743VRDA

μPD4611BC

2SA1309
2SC3311

MRN1402
UN2211
DTC114EK

2SB709
2SC2295
2SD1306

STRD6008

BA6435S

MN6742VCWK5

AN3815K

BA7004

MN15522VSSC

MRN2402
UN2111
DTA114EK

MRN1403
UN2212
DTC124EK

2SD1273

2SB1321A
2SD1996
2SD636
2SD1992A
2SB790
2SD638
2SC2377
2SB1320
2SC2188

BA7766AS
M51419SP
BA7274S

BA7705K1

M51292FP

BU5747

MRN2403
UN2112
DTA124EK

MRN1404
UN2213
DTC144EK

2SD1273

2SB1321A
2SD1996
2SD636
2SD1992A
2SB790
2SD638
2SC2377
2SB1320
2SC2188

BA7766AS
M51419SP
BA7274S

BA7705K1

M51292FP

BU5747

MRN2404
UN2113
DTA144EK

MRN1407
UN2214
DTC114YK

2SD1273

2SB1321A
2SD1996
2SD636
2SD1992A
2SB790
2SD638
2SC2377
2SB1320
2SC2188

BA7766AS
M51419SP
BA7274S

BA7705K1

M51292FP

BU5747

DTC363EK

2SD1273

2SB1321A
2SD1996
2SD636
2SD1992A
2SB790
2SD638
2SC2377
2SB1320
2SC2188

BA7766AS
M51419SP
BA7274S

BA7705K1

M51292FP

BU5747

UN4213

2SD1273

2SB1321A
2SD1996
2SD636
2SD1992A
2SB790
2SD638
2SC2377
2SB1320
2SC2188

BA7766AS
M51419SP
BA7274S

BA7705K1

M51292FP

BU5747

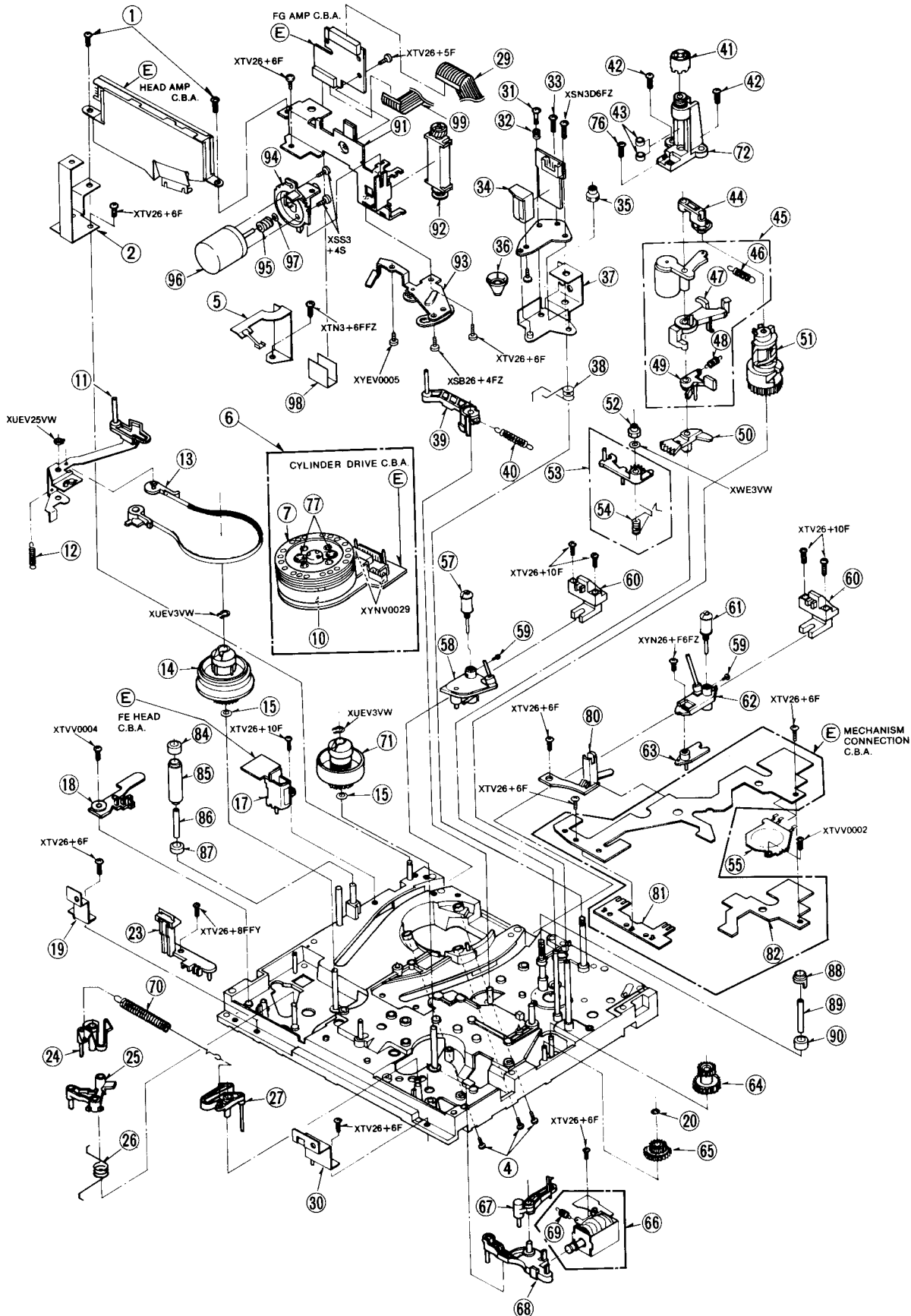
VEFH03D

Back Page:
INTERCONNECTION Section

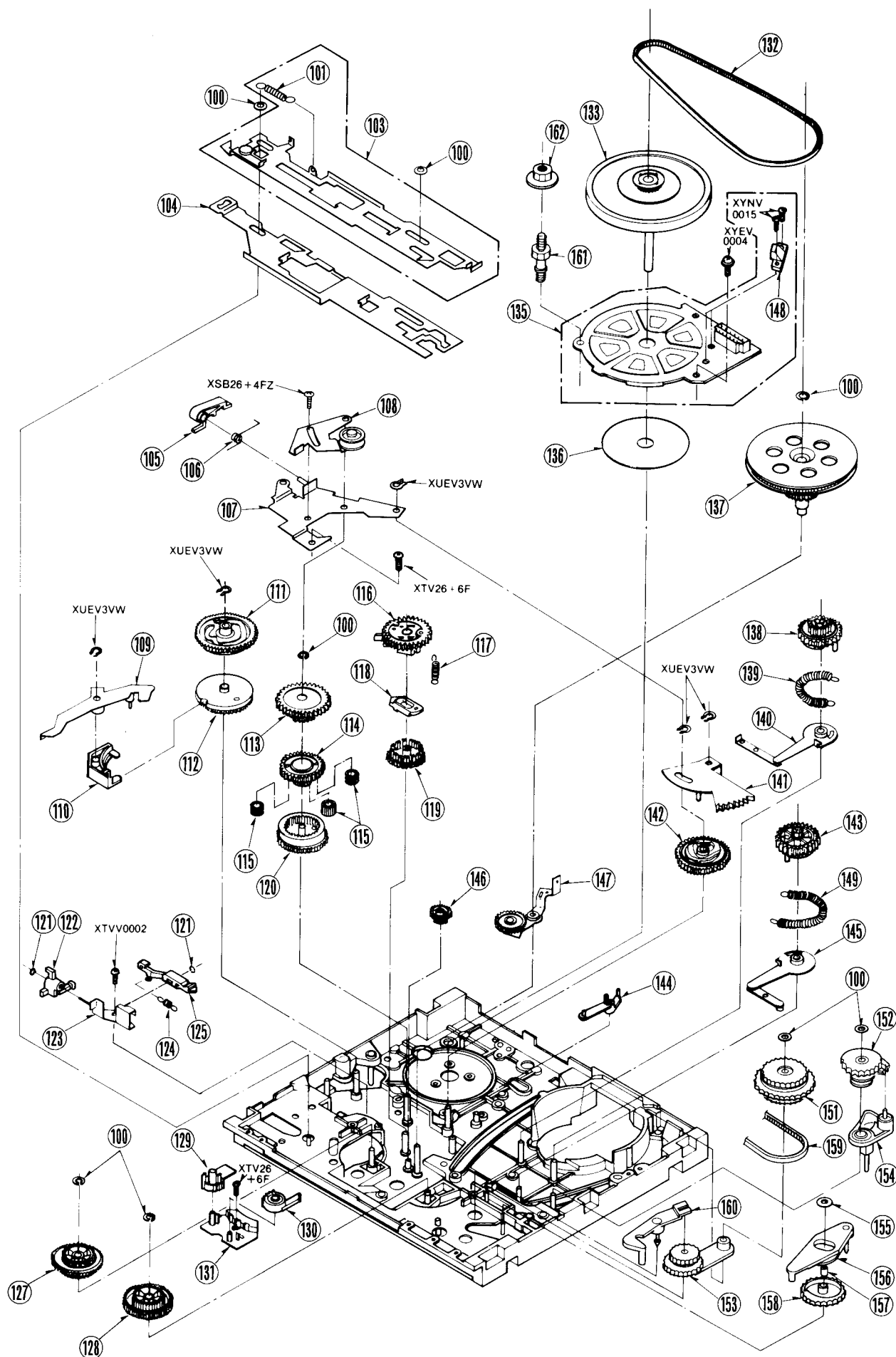
3—81

3—82

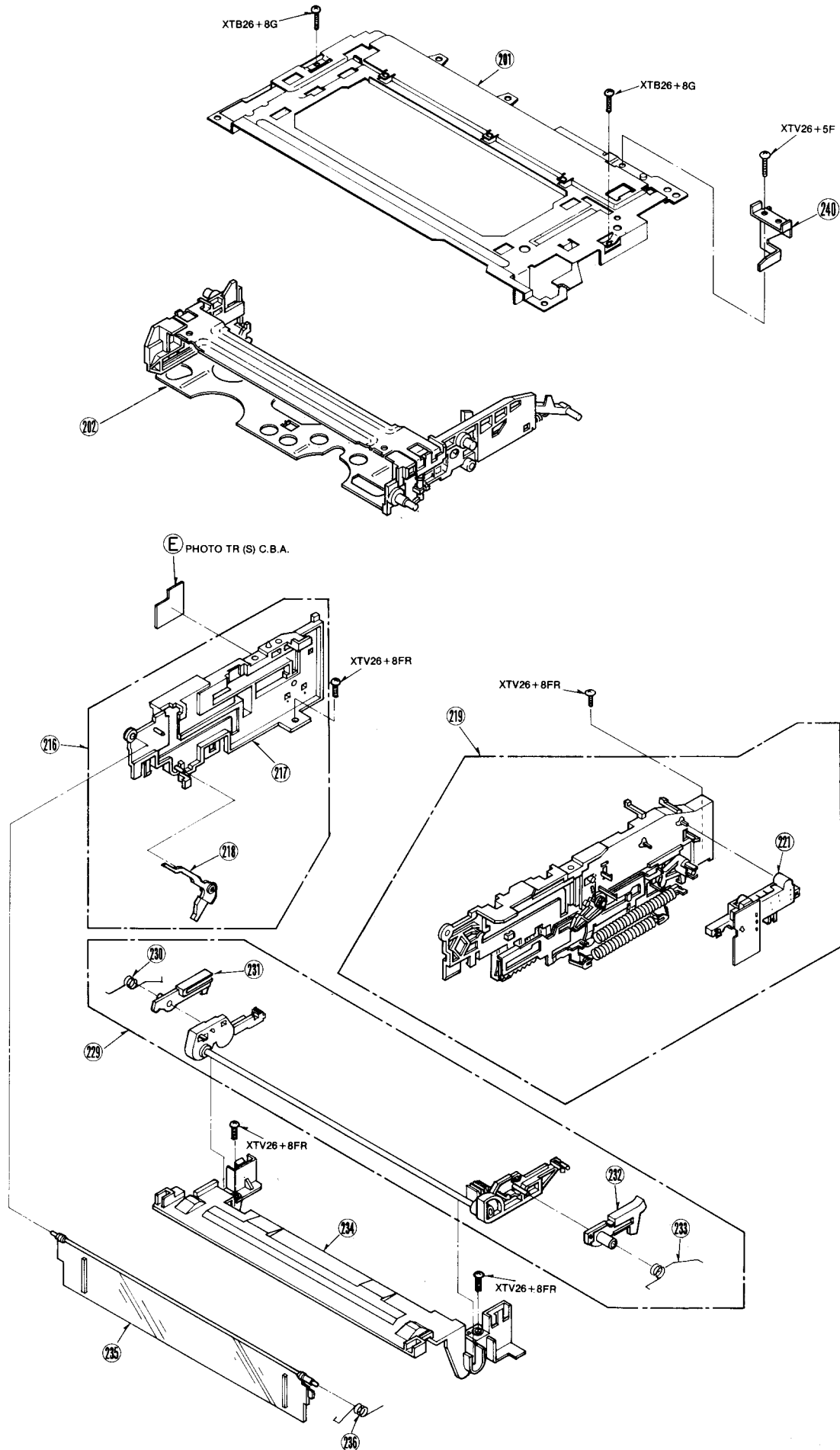
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)



2 CHASSIS PARTS SECTION (2)



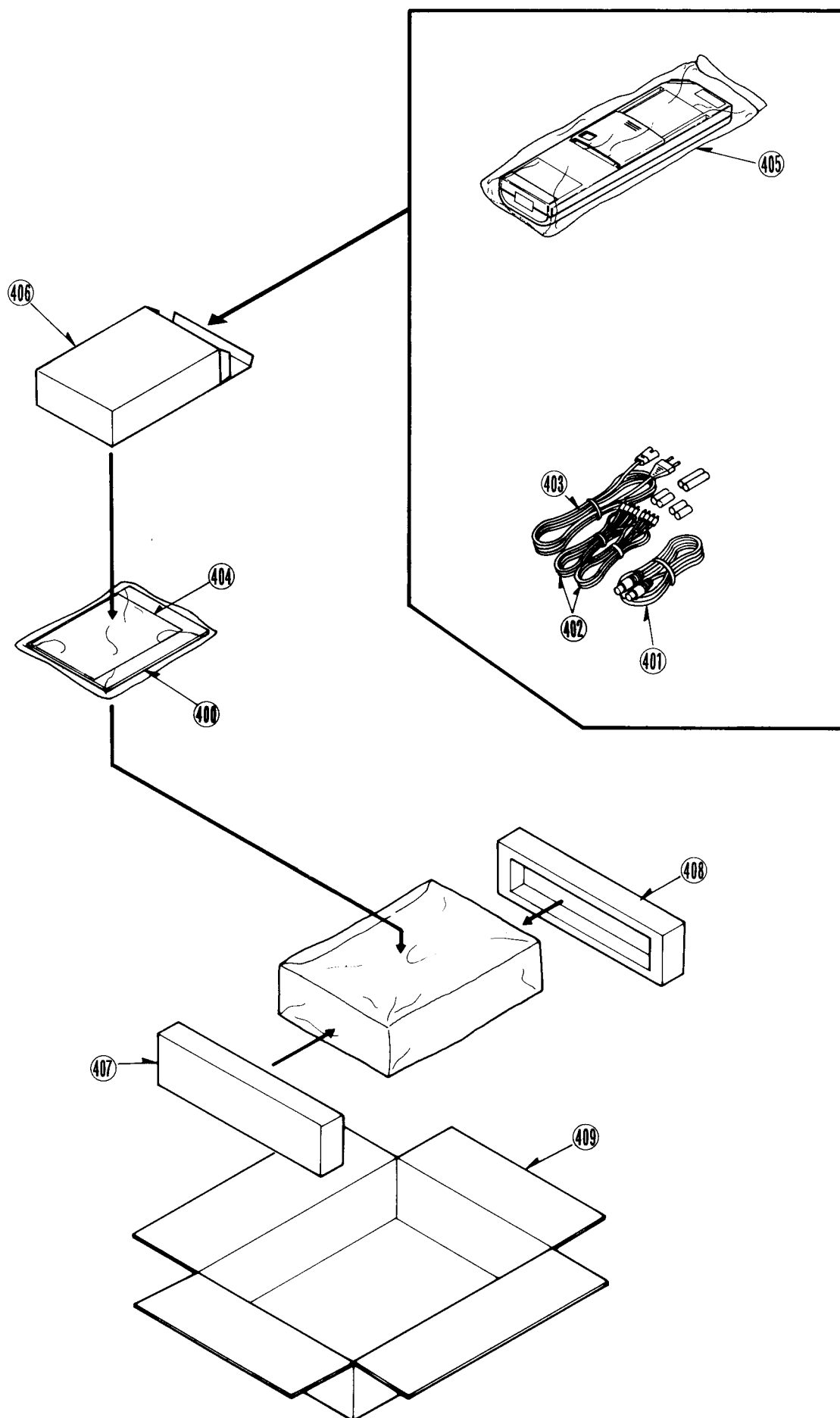
3 CASSETTE UP MECHANISM SECTION



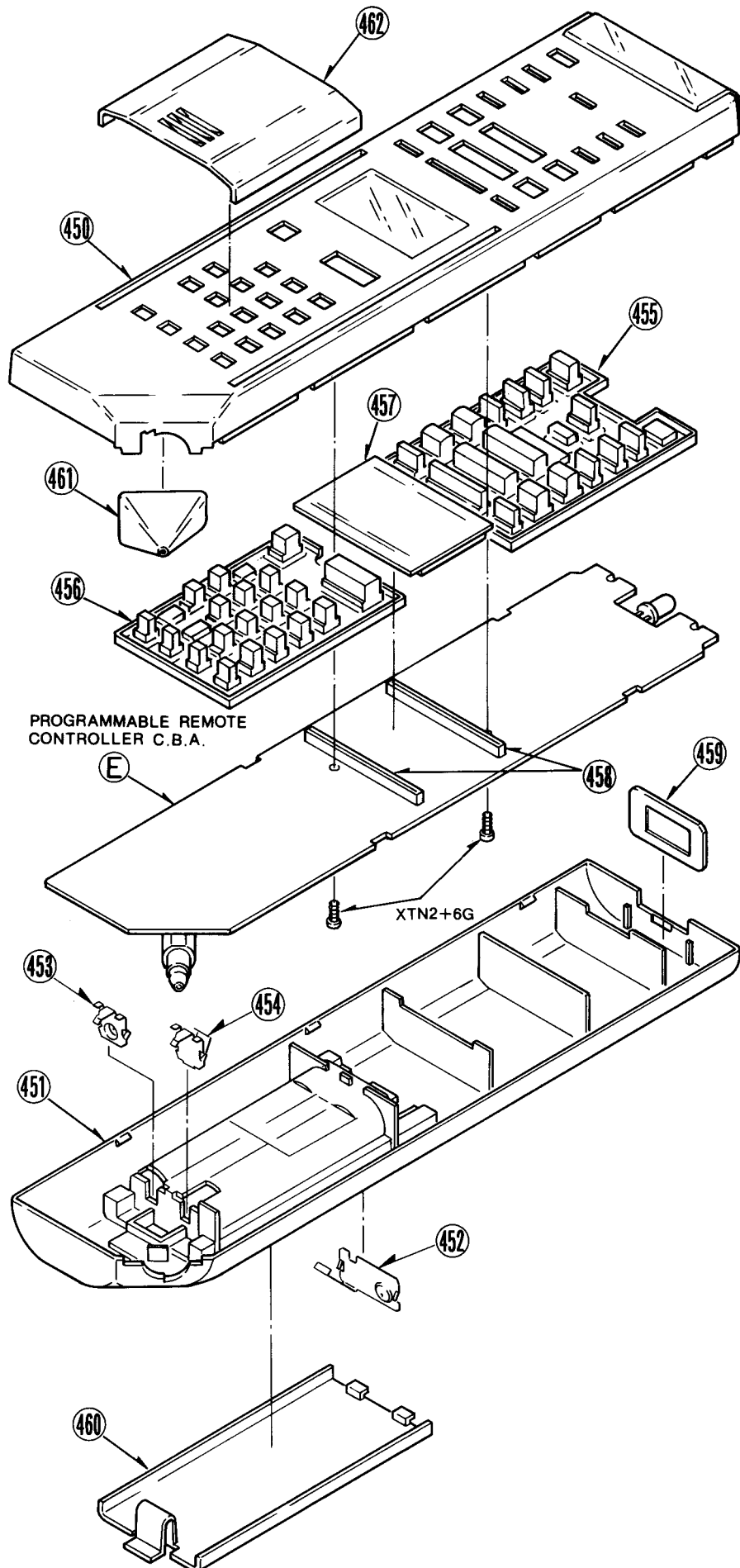
4



5 PACKING PARTS SECTION



⑥ REMOTE CONTROLLER (BUILD IN DIGITAL SCANNER) UNIT



4.2. MECHANICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1(1)	VHD0418	HEAD AMP SET SCREW	2	
2(1)	VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
4(1)	VHD0342	CYLINDER SCREW	3	
5(1)	VXA2702	EARTH PLATE UNIT	1	
6(1)	VEG0766	CYLINDER UNIT	1 (!)	
7(1)	VEH0352	UPPER CYLINDER UNIT	1	
10(1)	VSC2188	CYLINDER C.B.A. SHIELD PLATE	1	
11(1)	VXL1855	TENSION ARM (1) UNIT	1	
12(1)	VMB1563	TENSION SPRING	1	
13(1)	VX20267	TENSION BAND UNIT	1	
14(1)	VXRO179	SUPPLY REEL TABLE UNIT	1	
15(1)	VMM1171	REEL WASHER (0.5mm)	2	
15(1)	VMM1239	REEL WASHER (0.3mm)	2	
15(1)	VMM1238	REEL WASHER (0.2mm)	2	
17(1)	VBS0038	FE HEAD	1	
18(1)	VMD1316	TENSION SPRING HOOK	1	
19(1)	VMA6895	MOUNT ANGLE (L)	1	
20(1)	VMM1079	CUT WASHER	1	
23(1)	VES0486	SAFETY SW	1	
24(1)	VX20259	SUPPLY MAIN BRAKE UNIT	1	
25(1)	VX20274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)	VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)	VX20262	TAKE UP MAIN BRAKE UNIT	1	
29(1)	VWJ0427	FLEXIBLE CARD (18P)	1	
30(1)	VMA6896	MOUNT ANGLE (R)	1	
31(1)	VHD0322	ADJUST SCREW	1	
32(1)	VMB1251	ADJUST SPRING	1	
33(1)	VHDO089B	AZIMUTH ADJUST SCREW	1	
34(1)	VBR0132	A/C HEAD	1	
35(1)	VHNO063	M4 NYLON NUT	1	
36(1)	VHNO110	ADJUST NUT	1	
37(1)	VMA7831	HEAD BASE	1	
38(1)	VMB1567	A/C HEAD SPRING	1	
39(1)	VXL1910	SUB LOADING ARM (1) UNIT	1	
40(1)	VMB1566	SUB POST SPRING	1	
41(1)	VXQ0006	THRUST SCREW UNIT	1	
42(1)	VHD0317	HOUSING SCREW	2	
43(1)	VMM1033	OIL SEAL	2	
44(1)	VMM1353	PINCH CAM CAP	1	
45(1)	VXL1858	PRESSURE ROLLER UNIT	1	
46(1)	VMB1941	PIN PRESSURE SPRING	1	
47(1)	VML2232	PINCH PRESSURE ARM	1	
48(1)	VMB1569	PINCH PRESSURE ARM RELEASE SPRING	1	
49(1)	VML1874	PINCH LIFT ARM	1	
50(1)	VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)	VDG0421	PINCH CAM	1	
52(1)	VHNO023	M3 NYLON NUT	1	
53(1)	VXL1485	P5 UNIT	1	
54(1)	VMB1554	P5 SPRING	1	
55(1)	VSS0175	MODE SW	1	
57(1)	VXP0863	ROLLER POST UNIT	1	
58(1)	VXA2729	INCLIND BASE (S)(1)UNIT	1	
59(1)	VHD0133	ROLLER POST SCREW	2	
60(1)	VMD0910	POST STOPPER	2	
61(1)	VXP1094	ROLLER POST UNIT	1	
62(1)	VXA3876	INCLIND BASE(T)(1)UNIT	1	
63(1)	VXA2687	INCLIND ADJUST PLATE UNIT	1	
64(1)	VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)	VDG0332	CONNECTION GEAR	1	
66(1)	VXA3735	SOLENOID UNIT	1	
67(1)	VXA2692	KICK ROD UNIT	1	
68(1)	VML1849	SOLENOID LEVER	1	
69(1)	VMB1553	KICK ROD SPRING	1	
70(1)	VMB2012	MAIN BRAKE SPRING	1	
71(1)	VXRO176	TAKE UP REEL TABLE UNIT	1	
72(1)	VXD0101	HOUSING UNIT	1	
76(1)	VHD0374	HOUSING SCREW	1	
77(1)	VHD0553	UPPER CYLINDER SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
80(1)	VXA3520	LED HOLDER UNIT	1	
81(1)	VMA7829	REINFORCEMENT PLATE(L)	1	
82(1)	VMA7830	REINFORCEMENT PLATE(R)	1	
84(1)	VMM1088	SUPPLY UPPER LIMITER	1	
85(1)	VDP1072	SUPPLY ROLLER	1	
86(1)	VMM1581	P1 COLLAR	1	
87(1)	VMM1533	SUPPLY ROLLER LIMITER	1	
88(1)	VMM1544	P4 UPPER LIMITER	1	
89(1)	VMM1568	P4 SLEEVE	1	
90(1)	VMM1534	P4 LOWER LIMITER	1	
91(1)	VMA7832	MOTOR MOUNT PLATE	1	
92(1)	VXA3517	WORM WHEEL BEARING UNIT	1	
93(1)	VXA3701	TENSION PULLEY BASE (A) UNIT	1	
94(1)	VXA3564	REEL MOTOR BRACKET UNIT	1	
95(1)	VXP1158	WORM GEAR UNIT	1	
96(1)	VEM0320	REV MOTOR	1	
97(1)	VMM1734	WORM WASHER	1	
98(1)	VWJ15TW060M	FLEXIBLE CARD	1	
99(1)	VWJ0426	FLEXIBLE CARD (15P)	1	
100(2)	VMM1079	CUT WASHER	8	
101(2)	VMB1883	SUB LEVER SPRING	1	
103(2)	VXA3510	SUB LEVER UNIT	1	
104(2)	VMM0204	MAIN LEVER	1	
105(2)	VXL1873	SS BRAKE ARM UNIT	1	
106(2)	VMB1588	SS BRAKE SPRING	1	
107(2)	VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)	VXA3516	TENSION ROLLER UNIT	1	
109(2)	VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)	VML1861	DETENT ARM	1	
111(2)	VDG0574	MAIN CAM GEAR	1	
112(2)	VDG0343	SUB CAM GEAR	1	
113(2)	VDG0348	CENTRE GEAR	1	
114(2)	VDG0422	RETAINER GEAR	1	
115(2)	VDG0345	PLANET GEAR	3	
116(2)	VDG0547	CLUTCH DISK	1	
117(2)	VMB1558	CLUTCH SPRING	1	
118(2)	VDG0350	LOCK SLIDE GEAR	1	
119(2)	VDG0335	DRIVE DISK	1	
120(2)	VDG0342	RING GEAR	1	
121(2)	VMM0967	CUT WASHER	2	
122(2)	VML1859	CHANGE LEVER	1	
123(2)	VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)	VMB1557	RELEASE SPRING	1	
125(2)	VML1860	RELEASE LEVER	1	
127(2)	VXP1031	TAKE UP REEL GEAR UNIT	1	
128(2)	VXP0981	SUPPLY REEL GEAR UNIT	1	
129(2)	VML1858	RETURN LEVER (R)	1	
130(2)	VML1857	RETURN LEVER (L)	1	
131(2)	VMD0913	STOPPER BASE	1	
132(2)	VDG0169	TIMING BELT	1	
133(2)	VXP1113	ROTOR UNIT	1	
135(2)	VEK4097	STATOR UNIT	1 (!)	
136(2)	VMA6847	SUB PLATE	1	
137(2)	VXP1050	CENTRE PULLEY UNIT	1	
138(2)	VDG0564	LOADING GEAR (T)	1	
139(2)	VMB1555	LOADING SPRING (T)	1	
140(2)	VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)	VXA3515	SECTOR GEAR UNIT	1	
142(2)	VDG0516	LOADING CAM GEAR	1	
143(2)	VDG0419	LOADING GEAR (S)	1	
144(2)	VML2266	PLAY CONTROL ARM	1	
145(2)	VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)	VDG0546	INTERMEDIATE GEAR	1	
147(2)	VXL1861	PLAY ARM UNIT	1	
148(2)	VBK0048	FG HEAD	1	
149(2)	VMB1746	LOADING SPRING(S)	1	
151(2)	VXP1029	REVIEW CLUTCH UNIT	1	
152(2)	VXP1030	TENSION RELEASE CLUTCH UNIT	1	
153(2)	VXL1851	REVIEW ARM UNIT	1	
154(2)	VML2197	TENSION RELEASE LEVER	1	
155(2)	VMM1536	CUT WASHER	1	
156(2)	VML2233	SUB CAM FOLLOWER	1	
157(2)	VMM1495	RUBBER STOPPER	1	
158(2)	VDG0517	SUB LEVER CAM	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
159(2)	VW0199	REVIEW CLUTCH TIMING BELT	1		459(6)	VK0878	IR WINDOW	1	
160(2)	VML2200	REVIEW CONTROL LEVER	1		460(6)	VKF1444	BATTERY COVER	1	
161(2)	VHD0431	STATOR SPACER SCREW	1		461(6)	VQ1640	SENSOR CAP	1	
162(2)	VH0102	STATOR NUT	1		462(6)	VKF1445	SLIDE DOOR	1	
201(3)	VMA7223	TOP PLATE	1						
202(3)	VXA3832	CASSETTE HOLDER UNIT	1						
216(3)	VXA2676	SIDE PLATE (L) UNIT	1						
217(3)	VMD0917	SIDE PLATE (L)	1						
218(3)	VML1880	OPENER LEVER	1				SERVICING FIXTURES & TOOLS		
219(3)	VXA3895	SIDE PLATE (R) UNIT	1			VFJ8125H3F	VHS ALIGNMENT TAPE	1	{PAL}
221(3)	VXA4642	SLIDE SW UNIT	1			VFK0335	RETAINING RING REMOVER	1	(3mm/4mm)
229(3)	VXPO987	MAIN SHAFT UNIT	1			VFK0387	TENSION POST ADJUSTMENT	1	
230(3)	VMB1836	SUB WIPER SPRING (L)	1				PLATE		
231(3)	VML1878	SUB WIPER ARM (L)	1			VFK0191	POST ADJUSTMENT PLATE	1	
232(3)	VML1879	SUB WIPER ARM (R)	1			VFK0190	REEL TABLE HEIGHT GAUGE	1	
233(3)	VMB1837	SUB WIPER SPRING (R)	1			VFK0328	H-POSITION ADJUSTMENT	1	
234(3)	VMA6900	CASSETTE GUIDE	1				SCREWDRIVER		
235(3)	VKF1212	BLINDER PANEL	1			VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
236(3)	VMB1258	BLINDER SPRING	1			VFK62	FAN TYPE TENSION GAUGE	1	
240(3)	VMA7224	CASSETTE HOLDER ANGLE	1			VFK0326	HEX WRENCH SET	1	
300(4)	VGM0481	TOP PANEL UNIT	1			VFK0132	BACK TENSION METER	1	
301(4)	VHD0165	TOP PANEL SCREW	4			VFK0343	CHECK LIGHT	1	
302(4)	VYP3096	FRONT PANEL (1)UNIT	1			VFK0344	HEIGHT ADJUSTMENT FIXTURE	1	
303(4)	VGU5022	DOOR OPEN BUTTON	1			VFK27	HEAD CLEANING STICK	1	
304(4)	VGU5023	DOOR LOCK LEVER	1			MOR265	MORLYTONE GREASE	1	
305(4)	VQ1994	DOOR BUTTON HOLDER(A)	1			VFK0341	UPPER CYLINDER REMOVER	1	
306(4)	VQ1995	DOOR BUTTON HOLDER(B)	1						
307(4)	VMB2126	LOCK LEVER SPRING	1						
308(4)	VGF0355	REC LEVEL SLIDER	1						
309(4)	VGU5020	REC LEVEL KNOB	2						
311(4)	VXA4008	DOOR ANGLE(R) UNIT	1						
312(4)	VXA4009	DOOR ANGLE(L) UNIT	1						
313(4)	VJH0586	RF & ANT BOARD	1						
314(4)	VXA3571	POWER SHIELD PLATE (MAIN)	1						
315(4)	VSC2397	POWER SHIELD PLATE (TOP)	1						
316(4)	VSC2237	POWER SHIELD PLATE (BOTTOM)	1						
317(4)	VGH1809	POWER NAME PLATE	1						
318(4)	VQ2036	IC HOLDER	1						
319(4)	VM21575	INSULATION SHEET	1						
320(4)	VSC2238	HEAT SINK	1						
321(4)	VMP1734	SCREW STOPER ANGLE	1						
322(4)	VM21140	BARRIER	1						
323(4)	VMP0442	TOP HOLDER ANGLE (F)	2						
324(4)	VMP1855	TOP HOLDER ANGLE (R)	2						
326(4)	VKU0302	BOTTOM PLATE	1						
327(4)	VHD0059	BOTTOM PLATE SCREW	6						
328(4)	VKO0354	MAIN HING CLIP	1						
329(4)	VHD0418	MAIN SCREW	1						
330(4)	VMO0445	EARTH PLATE	1						
331(4)	VES0550	KEY BOARD PANEL UNIT	1						
332(4)	VYCO389	DOOR PANEL UNIT	1						
333(4)	VGL0432	PANEL LIGHT	1						
334(4)	VMT0212	CUSHION RUBBER	2						
335(4)	VKA0084	RUBBER FOOT	2						
400(5)	VQT3545	OPERATING INSTRUCTIONS (FRENCH)	1	<1>					
401(5)	VJA0396	DIN RF CABLE	1						
402(5)	VJA0231	AUDIO CABLE	2						
403(5)	VJA0449	AC CORD	1	<1>					
404(5)	VQC1364	PROGRAMME SHEET	1						
405(5)	VEQ1092	REMOTE CONTROLLER UNIT (BUILD IN DIGITAL SCANNER)	1						
406(5)	VPK0883	ACCESSORIES PACKING	1						
407(5)	VPN2716	CUSHION (L)	1						
408(5)	VPN2717	CUSHION (R)	1						
409(5)	VPG5200	PACKING	1						
450(6)	VYK2972	TOP COVER UNIT	1						
451(6)	VKM2169	BOTTOM COVER	1						
452(6)	VJR0498	ELECTRODE (COMMON)	1						
453(6)	VJR0585	ELECTRODE (+)	1						
454(6)	VJR0584	ELECTRODE (-)	1						
455(6)	VSP0422	RUBBER CONTACT (A)	1						
456(6)	VSP0499	RUBBER CONTACT (B)	1						
457(6)	VSL0202	LCD	1						
458(6)	VMT0297	CONDUCTIVE RUBBER	2						

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1.* Be sure to make your orders of replacement parts according to this list.
 2. IMPORTANT SAFETY NOTICE
 Components identified with the mark (!) have the special characteristics for safety. When replacing any of these components, use only the same type.
 3. Unless otherwise specified,
 All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICRO-FARADS (uf), P=unif.
 4. The P.C. Board units marked with '■' show below the main assembled parts.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP03703A	MAIN C.B.A.	1	(NLA) (!)
		INCLUDING THE LUMINANCE & CHROMINANCE PACK C.B.A.		
		(VEP03745A), HI-FI PACK AUDIO C.B.A.		
		(VEP04285B), INPUT/OUTPUT PACK C.B.A. (VEP04297A), SUB SYSTEM CONTROL PACK C.B.A. (VEP06648A), TV DEMODULATOR PACK C.B.A. (VEP07561B), SIF PACK C.B.A. (VEP07590A)		
	VEP03745A	LUMINANCE & CHROMINANCE PACK C.B.A.	1	(NLA)
	VEP04285B	HI-FI AUDIO PACK C.B.A.	1	(NLA)
	VEP04297A	INPUT/OUTPUT PACK C.B.A.	1	(NLA)
	VEP06648A	SUB SYSTEM CONTROL PACK C.B.A.	1	(NLA)
	VEP07561B	TV DEMODULATOR PACK C.B.A.	1	(NLA)
	VEP07590A	SIF PACK C.B.A.	1	(NLA) (!)
	VEP05150B	HEAD AMP C.B.A.	1	(NLA)
	VEP06617A	VR C.B.A.	1	(NLA)
		INCLUDING THE HEAD PHONE JACK C.B.A.		
		INCLUDING THE MIC & HEAD PHONE JACK C.B.A. (VEP06639A)		
	VEP06639A	HEAD PHONE & MIC JACK C.B.A.	1	(NLA)
	VEP0674A	INTERFACE C.B.A.	1	(NLA)
	VEP07581G	TIMER C.B.A.	1	(NLA)
		INCLUDING THE IR RECEIVER C.B.A. (VEP06633A)		
	VEP06633A	IR RECEIVER C.B.A.	1	(NLA)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VEP01420A	POWER C.B.A.	1	(NLA)
	VEP00K88C	FE HEAD C.B.A.	1	(NLA)
	VEP00M86A	PG AMP C.B.A.	1	(NLA)
	VEX0113	CYLINDER DRIVE C.B.A.	1	(NLA)
	VXA3825	MECHANISM CONNECTION C.B.A.	1	(NLA)
	VEK3578	PHOTO TR (S) C.B.A.	1	(NLA)
	VEP66125A	REMOTE CONTROLLER C.B.A.	1	(NLA)
F1101	XBA2C16TB0	FUSE 250V 1.6A	1	(!)
	VWJ0426	FLEXIBLE CARD (15P)	1	P6001-P1504
	VWJ0427	FLEXIBLE CARD (18P)	1	P2001-P1505
	■ VEP03703A	MAIN C.B.A.		(NLA) (!)
		CAPACITORS		
C301	ECEA1EKN2R2	E. CAPACITOR 25V 2.2U	1	
C302	ECEAOJK220	E. CAPACITOR 6.3V 22U	1	
C303	EQQV1H104JZ	P. CAPACITOR 50V 0.1U	1	
C304	ECEAOJU331	E. CAPACITOR 6.3V 330U	1	
C305	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C306	ECEA1EK4R7	E. CAPACITOR 25V 4.7U	1	
C307	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1	
C310	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C311, 12	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	2	
C313	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C314	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	1	
C315	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C317	ECEA1AK470	E. CAPACITOR 10V 47U	1	
C321	ECEA1HK010	E. CAPACITOR 50V 1U	1	
C322	ECEA1HK2R2	E. CAPACITOR 50V 2.2U	1	
C324	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C325, 26	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2	
C327, 28	ECEA1CK100	E. CAPACITOR 16V 10U	2	
C329	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C331	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C332	EQQV1H334JZ	P. CAPACITOR 50V 0.33U	1	
C333	ECEA1HK4R7	E. CAPACITOR 50V 4.7U	1	
C334	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C335	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C336	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C337	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1	
C338	VCYD1C104MR1	S. CAPACITOR 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C339	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1		C2010	ECQV1H104J2	P. CAPACITOR 50V 0.1U	1	
C340	ECEA1EK4R7	E. CAPACITOR 25V 4.7U	1		C2011-13	ECEA1HKR2	E. CAPACITOR 50V 2.2U	3	
C348	ECUM1H470JCN	C. CAPACITOR CH 50V 47P	1		C2014	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C351	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1		C2015	ECEA1HKR47	E. CAPACITOR 50V 0.47U	1	
C352	ECQB1H562KH	P. CAPACITOR 50V 5600P	1		C2016	ECEA0JK220	E. CAPACITOR 6.3V 22U	1	
C353	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1		C2017	ECEA1CKN100	E. CAPACITOR 16V 10U	1	
C354	ECQV1H104J2	P. CAPACITOR 50V 0.1U	1		C2018	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C360	ECQB1H153KH	P. CAPACITOR 50V 0.015U	1		C2019	ECEA1HK3R3	E. CAPACITOR 50V 3.3U	1	
C601	ECEA1CK101	E. CAPACITOR 16V 100U	1		C2020	ECUM1H471KBN	C. CAPACITOR CH 50V 470P	1	
C602	ECEA1CK100	E. CAPACITOR 16V 10U	1		C2021	ECEA1HK3R3	E. CAPACITOR 50V 3.3U	1	
C603	ECEA0JK220	E. CAPACITOR 6.3V 22U	1		C2022	ECEA1HKN3R3	E. CAPACITOR 50V 3.3U	1	
C701,02	ECEA1CK220	E. CAPACITOR 16V 22U	2		C2023	ECQV1H683J2	P. CAPACITOR 50V 0.068U	1	
C703	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1		C2024	ECEA1HK4R7	E. CAPACITOR 50V 4.7U	1	
C705	ECEA1CK220	E. CAPACITOR 16V 22U	1		C2025	ECUM1H472KBN	C. CAPACITOR CH 50V 4700P	1	
C706	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C2029	ECEA1CKN100	E. CAPACITOR 16V 10U	1	
C707	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C2031	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C708,09	ECEA1CK220	E. CAPACITOR 16V 22U	2		C2032	ECQV1H184J2	P. CAPACITOR 50V 0.18U	1	
C710	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C2033	ECUM1H222KBN	C. CAPACITOR CH 50V 2200P	1	
C712-16	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	5		C3001	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1	
C717	ECEA1CK470	E. CAPACITOR 16V 47U	1		C3002	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C718	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3004	ECEA0JU471	E. CAPACITOR 6.3V 470U	1	
C719,20	ECEA1HKR47	E. CAPACITOR 50V 0.47U	2		C3005	ECEA1HK010	E. CAPACITOR 50V 1U	1	
C721	ECEA1HKN3R3	E. CAPACITOR 50V 3.3U	1		C3007	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C722	ECEA1HKR2	E. CAPACITOR 50V 2.2U	1		C3010	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C723	ECEA1CK470	E. CAPACITOR 16V 47U	1		C3011	ECEA1HKN010	E. CAPACITOR 50V 1U	1	
C724	ECQB1H153JH	P. CAPACITOR 50V 0.015U	1		C3012	ECQV1H104J2	P. CAPACITOR 50V 0.1U	1	
C725	ECQV1H333J2	P. CAPACITOR 50V 0.033U	1		C3013,14	ECQB1H103J2	P. CAPACITOR 50V 0.01U	2	
C726	ECEA1HKN010	E. CAPACITOR 50V 1U	1		C3015	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C727	ECEA1HKR47	E. CAPACITOR 50V 0.47U	1		C3016	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C728	ECUM1H1022FN	C. CAPACITOR CH 50V 1000P	1		C3017	ECEA0JFE680	E. CAPACITOR 6.3V 68U	1	
C729	ECUM1H561KCN	C. CAPACITOR CH 50V 560P	1		C3018	ECQB1H332KZ	P. CAPACITOR 50V 3300P	1	
C730	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3602	ECUM1H560JCN	C. CAPACITOR CH 50V 56P	1	
C731	ECUM1H121JCN	C. CAPACITOR CH 50V 120P	1		C3604	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1	
C732	ECUM1H181JCN	C. CAPACITOR CH 50V 180P	1		C3608	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	1	
C733	ECUX1H470JFN	C. CAPACITOR CH 50V 47P	1		C3609	ECUM1H180JCN	C. CAPACITOR CH 50V 18P	1	
C735	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3610	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1	
C736	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1		C3611	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C748	ECEA1CK470	E. CAPACITOR 16V 47U	1		C3612	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C780	ECUM1H471KCN	C. CAPACITOR CH 50V 470P	1		C3613	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C784	ECQV1H104J2	P. CAPACITOR 50V 0.1U	1		C3616	ECUM1H680JCN	C. CAPACITOR CH 50V 68P	1	
C788	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3617	ECUM1H151JCN	C. CAPACITOR CH 50V 150P	1	
C791	ECEA1EKN4R7	E. CAPACITOR 25V 4.7U	1		C3618	ERJ6GM9000	M. RESISTOR CH 1/10W 0.00	1	
C792	ECEA1HKR47	E. CAPACITOR 50V 0.47U	1		C3620	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	1	
C796-98	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	3		C3621	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C799	ECEA1CK220	E. CAPACITOR 16V 22U	1		C3622	ECEA1CK100	E. CAPACITOR 16V 10U	1	
C819	ECEA1AK470	E. CAPACITOR 10V 47U	1		C3623	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C820,21	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		C3901-07	ECEA1AK470	E. CAPACITOR 10V 47U	7	
C822	ECEA1AK470	E. CAPACITOR 10V 47U	1		C3908	ECEA1CK101	E. CAPACITOR 16V 100U	1	
C823	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3909	ECEA1AK470	E. CAPACITOR 10V 47U	1	
C824	ECQB1H223JH	P. CAPACITOR 50V 0.022U	1		C3911	VCEA1CAC101	E. CAPACITOR 16V 100U	1	
C825	ECEA1AK470	E. CAPACITOR 10V 47U	1		C3912	ECEA0JKN470	E. CAPACITOR 6.3V 47U	1	
C826	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3913	ECEA1AU471	E. CAPACITOR 10V 470U	1	
C827	ECUM1H270JCN	C. CAPACITOR CH 50V 27P	1		C3914	ECEA1CU221	E. CAPACITOR 16V 220U	1	
C828	ECUM1H271JCN	C. CAPACITOR CH 50V 270P	1		C3915	ECEA0JKN470	E. CAPACITOR 6.3V 47U	1	
C829	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3916	ECEA1AU471	E. CAPACITOR 10V 470U	1	
C830	ECQV1H104J2	P. CAPACITOR 50V 0.1U	1		C3917	ECEA1CU221	E. CAPACITOR 16V 220U	1	
C831	ECQB1H103KH	P. CAPACITOR 50V 0.01U	1		C3918	ECEA1AK470	E. CAPACITOR 10V 47U	1	
C832	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1		C3919	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C834	VCYD1C104MR1	S. CAPACITOR 16V 0.1U	1		C3920,21	ECUM1H020CCN	C. CAPACITOR CH 50V 2U	2	
C842	ECUM1H561KBN	C. CAPACITOR CH 50V 560P	1		C3922-24	ECEA1CK100	E. CAPACITOR 16V 10U	3	
C843-46	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	4		C3925,26	ECUM1H332KBN	C. CAPACITOR CH 50V 3300P	2	
C848	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3951	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C849	ECUM1H221JCN	C. CAPACITOR CH 50V 220P	1		C3953,54	VCEA1AAC101	E. CAPACITOR 10V 100U	2	
C850	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3955	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C870	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C3965	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C876	ECUM1H330JCN	C. CAPACITOR CH 50V 33P	1		C4001	ECQB1H103KZ3	F. CAPACITOR 50V 0.01U	1	
C877	ECEA1CK100	E. CAPACITOR 16V 10U	1		C4002	ECEA16M33	E. CAPACITOR 16V 33U	1	
C879	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1		C4003	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1	
C2001	ECQB1H223J2	F. CAPACITOR 50V 0.022U	1		C4004	ECQP1H222J2	P. CAPACITOR 50V 2200P	1	
C2002	ECEA1CK470	E. CAPACITOR 16V 47U	1		C4005	ECCD2H121K	C. CAPACITOR 500V 120P	1	
C2003	VCYD1C333MR1	S. CAPACITOR 16V 0.033U	1		C4006	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C2004	ECEA0JU221	E. CAPACITOR 6.3V 220U	1		C4007	ECEA1CK330	E. CAPACITOR 16V 33U	1	
C2005	VCYD1C333MR1	S. CAPACITOR 16V 0.033U	1		C4008	ECEA1HK010	E. CAPACITOR 50V 1U	1	
C2006-08	ECQB1H333KZ	P. CAPACITOR 50V 0.033U	3		C4009	ECEA1EK4R7	E. CAPACITOR 25V 4.7U	1	
C2009	VCYD1C333MR1	S. CAPACITOR 16V 0.033U	1		C4012	ECEA1CK100	E. CAPACITOR 16V 10U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4013	ECUX1H471JN	C. CAPACITOR CH 50V 470P	1		C4551	ECEA1HB24R7	E. CAPACITOR 50V 4.7U	1	
C4014	EC0P1H221JC	C. CAPACITOR 50V 220P	1		C4552	ECEA1HK010	E. CAPACITOR 50V 1U	1	
C4015	ECEA16M10R	E. CAPACITOR 16V 10. U	1		C4553	ECQB1H102JA	P. CAPACITOR 50V 1000P	1	
C4016	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		C4554	ECQB1H223JA	P. CAPACITOR 50V 0.022U	1	
C4017	ECEA10M22R	E. CAPACITOR 10V 22. U	1		C4555	ECQB1H682JA	P. CAPACITOR 50V 6800P	1	
C4018	ECQB1H822JZ	P. CAPACITOR 50V 8200P	1		C4556	VCEA1EAE100	E. CAPACITOR 25V 10U	1	
C4019	ECEA1CK100	E. CAPACITOR 16V 10U	1		C4557	ECQB1H223JA	P. CAPACITOR 50V 0.022U	1	
C4020	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		C4558	ECEA1EPH4R7	E. CAPACITOR 25V 4.7U	1	
C4021	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1		C4559	VCEA1CAH470	E. CAPACITOR 25V 47UF	1	
C4022	ECUM1H152KBN	C. CAPACITOR CH 50V 1500P	1		C4560	ECQB1H103JA	P. CAPACITOR 50V 0.01U	1	
C4023	ECUM1H221JN	C. CAPACITOR CH 50V 220P	1		C4561	ECQB1H332JA	P. CAPACITOR 50V 3300P	1	
C4024, 25	ECUM1H101JN	C. CAPACITOR CH 50V 100U	2		C4562	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1	
C4026	VCYD1C104MR1	S. CAPACITOR 16V 0.1U	1		C4563, 64	ECUM1H102JN	C. CAPACITOR CH 50V 1000P	2	
C4027	ECUM1H102KBN	C. CAPACITOR CH 50V 1000P	1		C4565	ECEA1HP24R7	E. CAPACITOR 50V 4.7U	1	
C4028	ECUM1H681KBN	C. CAPACITOR CH 50V 680P	1		C4566	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C4029	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	1		C4567	ECEA1AP2101	E. CAPACITOR 10V 100U	1	
C4031	ECEA1HK010	E. CAPACITOR 50V 1U	1		C4568, 69	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2	
C4037	ECQB1H223JZ	P. CAPACITOR 50V 0.022U	1		C4570	VCEA1CAH100	E. CAPACITOR 25V 10UF	1	
C4101	ECEA1APK101	E. CAPACITOR 10V 100U	1		C4572	ECEA1HP23R3	E. CAPACITOR 50V 3.3U	1	
C4103	ECEA1HPK010	E. CAPACITOR 50V 1U	1		C4574, 75	ECEA1HK010	E. CAPACITOR 50V 1U	2	
C4104	ECEA1APK101	E. CAPACITOR 10V 100U	1		C4576	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C4106	ECEA1APK470	E. CAPACITOR 10V 47U	1		C4594	ECQB1H222JZ	P. CAPACITOR 50V 2200P	1	
C4107	ECEA1HPK010	E. CAPACITOR 50V 1U	1		C4901, 02	VCEA1AAC101	E. CAPACITOR 10V 100U	2	
C4108	ECEA1CPK101	E. CAPACITOR 16V 100U	1		C4903-08	VCEA1CAC100	E. CAPACITOR 16V 10U	6	
C4110, 11	ECEA1CK100	E. CAPACITOR 16V 10U	2		C4909	VCEA1CAC101	E. CAPACITOR 16V 100U	1	
C4112	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1		C4910-15	VCEA1CAC100	E. CAPACITOR 16V 10U	6	
C4114, 15	ECUX1H4732FN	C. CAPACITOR CH 50V 0.047U	2		C4916, 17	ECEA1HK2R2	E. CAPACITOR 50V 2.2U	2	
C4125	ECUX1H471JN	C. CAPACITOR CH 50V 470P	1		C4918	ECEA1HKR47	E. CAPACITOR 50V 0.47U	1	
C4127	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		C4919	ECEA1HK2R2	E. CAPACITOR 50V 2.2U	1	
C4128	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4920	ECEA1CU331	E. CAPACITOR 16V 330U	1	
C4133	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		C4921	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C4134	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C4922, 23	VCEA1CAD100J	E. CAPACITOR 16V 10U	2	
C4135	ECUM1H103KBN	C. CAPACITOR CH 50V 0.01U	1		C4924	VCEA1CAC101	E. CAPACITOR 16V 100U	1	
C4136	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1		C4925	VCEA1AAC101	E. CAPACITOR 10V 100U	1	
C4137, 38	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	2		C4926, 27	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2	
C4139, 40	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		C4928	VCEA1HAC3R3	E. CAPACITOR 50V 3.3U	1	
C4141	ECQV1H104JZ	P. CAPACITOR 50V 0.1U	1		C6001	ECEA0JK330	E. CAPACITOR 6.3V 33U	1	
C4501	ECEA1HB24R7	E. CAPACITOR 50V 4.7U	1		C6002	VCYD1C104MR1	S. CAPACITOR 16V 0.1U	1	
C4502	ECEA1HK010	E. CAPACITOR 50V 1U	1		C6003	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C4503	ECQB1H102JA	P. CAPACITOR 50V 1000P	1		C6004	ECEA0JK420	E. CAPACITOR 6.3V 22U	1	
C4504	ECQB1H223JA	P. CAPACITOR 50V 0.022U	1		C6005	ECQV1H104JZ	P. CAPACITOR 50V 0.1U	1	
C4505	ECQB1H682JA	P. CAPACITOR 50V 6800P	1		C6006	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1	
C4506	VCEA1EAE100	E. CAPACITOR 25V 10U	1		C6008	ECEA0JK221	E. CAPACITOR 6.3V 220U	1	
C4507	ECQB1H223JA	P. CAPACITOR 50V 0.022U	1		C6009	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C4508	ECEA1EPH4R7	E. CAPACITOR 25V 4.7U	1		C6010-12	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	3	
C4509	VCEA1CAH470B	E. CAPACITOR 25V 47UF	1		C6013	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C4510	ECQB1H103JA	P. CAPACITOR 50V 0.01U	1		C6014, 15	ECEA1AK330	E. CAPACITOR 10V 33U	2	
C4511	ECQB1H332JA	P. CAPACITOR 50V 3300P	1		C6016	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C4512	ECUM1H102JCN	C. CAPACITOR CH 50V 1000P	1		C6018	ECEA1CK330	E. CAPACITOR 16V 33U	1	
C4513, 14	ECUM1H102JN	C. CAPACITOR CH 50V 1000P	2		C6019	ECKF1H1032F	C. CAPACITOR 50V 0.01U	1	
C4515	ECEA1HP24R7	E. CAPACITOR 50V 4.7U	1		C6020	ECEA1CK330	E. CAPACITOR 16V 33U	1	
C4516	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C6021	ECEA1CK470	E. CAPACITOR 16V 47U	1	
C4517	ECEA1AP2101	E. CAPACITOR 10V 100U	1		C6022	ECQB1H103JZ	P. CAPACITOR 50V 0.01U	1	
C4518, 19	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		C6023	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1	
C4520	VCEA1CAH100	E. CAPACITOR 25V 10UF	1		C6024	ECQB1H223KZ	P. CAPACITOR 50V 0.022U	1	
C4521	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U	1		C6025	ECUM1H2232FN	C. CAPACITOR CH 50V 0.022U	1	
C4522	ECEA1HP23R3	E. CAPACITOR 50V 3.3U	1		C6026	EECS5R5V105	TRIMMER	1	
C4525	ECEA1CP2220	E. CAPACITOR 16V 22U	1		C6027	ECEA0JU471	E. CAPACITOR 6.3V 470U	1	
C4526	VCEA1CAH470	E. CAPACITOR 25V 47UF	1		C6028	ECEA0JK330	E. CAPACITOR 6.3V 33U	1	
C4527	VCEA1AAE101	E. CAPACITOR 10V 100U	1		C6029	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C4528	ECEA1HK0R1	E. CAPACITOR 50V 0.1U	1		C6031, 32	ECUM1H271KBN	C. CAPACITOR CH 50V 270P	2	
C4529	ECEA1HK010	E. CAPACITOR 50V 1U	1		C6033	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C4530	ECEA1CK470	E. CAPACITOR 16V 47U	1		C6034	ECEA0JU331	E. CAPACITOR 6.3V 330U	1	
C4531	ECEA1EK3R3	E. CAPACITOR 25V 3.3U	1		C6035	ECEA1CU222	E. CAPACITOR 16V 2200U	1	
C4532	ECEA1CP2471	E. CAPACITOR 16V 470U	1		C6036	ECEA0JK220	E. CAPACITOR 6.3V 22U	1	
C4533	ECEA1CP2221	E. CAPACITOR 16V 220U	1		C6037	ECQB1H332KZ	P. CAPACITOR 50V 3300P	1	
C4534	VCEA1AAH101	E. CAPACITOR 10V 100U	1		C6038	ECQB1H562KZ	P. CAPACITOR 50V 5600P	1	
C4535	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		C6040	ECEA1VFB20	E. CAPACITOR 35V 82U	1	
C4537	ECUM1H331JCN	C. CAPACITOR CH 50V 330P	1		C6041	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1	
C4538	ECQV1H104JZ	P. CAPACITOR 50V 0.1U	1		C6042	ECUM1H150JCN	C. CAPACITOR CH 50V 15P	1	
C4539	ECQV1H274JZ	P. CAPACITOR 50V 0.27U	1		C6043	ECUM1H181JCN	C. CAPACITOR CH 50V 180P	1	
C4540-42	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	3		C6044	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1	
C4543	ECUM1H101JCN	C. CAPACITOR CH 50V 100P	1		C6045	ECEA0JK470	E. CAPACITOR 6.3V 47U	1	
C4544	ECQB1H222JZ	P. CAPACITOR 50V 2200P	1		C6047	ECEA0JK330	E. CAPACITOR 6.3V 33U	1	
C4545	ECUM1H102JN	C. CAPACITOR CH 50V 1000P	1		C6048	ECQV1H104JZ	P. CAPACITOR 50V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C6049	ECUM1H392KBN	C. CAPACITOR CH 50V 3900P	1		D6018	MA4091M	DIODE	1	
C6050	ECEA0JK470	E. CAPACITOR 6.3V 47U	1		D6019	1SS254	DIODE	1	
C6051	ECEA1HK4R7	E. CAPACITOR 50V 4.7U	1		D6020	AK04V2	DIODE	1	
C6052	ECEA0JK470	E. CAPACITOR 6.3V 47U	1		D6022,23	1SS254	DIODE	2	
C6053	ECEA1HK010	E. CAPACITOR 50V 1U	1		D6026,27	1SS254	DIODE	2	
C6054	ECEA0JK101U	E. CAPACITOR 6.3V 100U	1		D6030-39	1SS254	DIODE	10	
C6055	ECEA1CK100	E. CAPACITOR 16V 10U	1		D6101	MA4062M	DIODE	1	
C6056	ECEA0JK330	E. CAPACITOR 6.3V 33U	1		D7301	MA29WA	DIODE	1	
C6057	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		D7302,03	1SS254	DIODE	2	
C6058	ECEA1CK220	E. CAPACITOR 16V 22U	1		D7901-04	1SS254	DIODE	4	
C6059	ECUM1H221JCN	C. CAPACITOR CH 50V 220P	1						
C6060,61	ECEA1HK010	E. CAPACITOR 50V 1U	2						
C7301	ECUM1H1022FN	C. CAPACITOR CH 50V 1000P	1						
C7302	ECUX1HB20JCN	C. CAPACITOR CH 50V 82P	1						
C7303-08	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	6		F6001	VSFO077	FUSE 250V 3A	1	<1>
C7309,10	ECEA1CK470	E. CAPACITOR 16V 47U	2						
C7311	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1						
C7312	ECEA1EK4R7	E. CAPACITOR 25V 4.7U	1		FL301	ELB4M022	FILTER	1	
C7313	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		FL302	VLF0499	FILTER	1	
C7314-16	ECUX1H470JCN	C. CAPACITOR CH 50V 47P	3		FL303	VLF0727	FILTER	1	
C7317	ECEA1CK100	E. CAPACITOR 16V 10U	1		FL803	VLP0645	FILTER	1	
C7318	ECEA1CK220	E. CAPACITOR 16V 22U	1		FL804	VLP0647	FILTER	1	
C7319	ECEA1CK100	E. CAPACITOR 16V 10U	1		FL805	VLP0643	FILTER	1	
C7320	ECQB1H182JH	P. CAPACITOR 50V 1800P	1		FL806	VLP0644	FILTER	1	
C7651	ECEA1CK0100	E. CAPACITOR 16V 10U	1		FL807	VLP0646	FILTER	1	
C7653	ECQB1H392JH	P. CAPACITOR 50V 3900P	1		FL808	VLP0648	FILTER	1	
C7654	ECQB1H103JH	P. CAPACITOR 50V 0.01U	1		FL809	VLP0649	FILTER	1	
C7655,56	ECEA1HK010	E. CAPACITOR 50V 1U	2		FL4503	VLP0697	FILTER	1	
C7657	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1						
C7658	ECQP1H562JZ	P. CAPACITOR 50V 5600P	1						
C7659	ECQB1H272JH	P. CAPACITOR 50V 2700P	1						
C7661	ECQV1H104JZ	P. CAPACITOR 50V 0.1U	1		IC301	VEFH03D	HIC	1	
C7662	ECQV1H683JZ	P. CAPACITOR 50V 0.068U	1		IC303	MSM6965-3RS	IC	1	
C7663	ECQV1H823JZ	P. CAPACITOR 50V 0.082U	1		IC601	MN1552ZVSSC	IC	1	
C7664	ECQB1H273JH	P. CAPACITOR 50V 0.027U	1		IC602	LM393P	IC	1	
C7665,66	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		IC701	M51419SP	IC	1	
C7667	ECEA1HKA100	E. CAPACITOR 50V 10U	1		IC801	BA7107S	IC	1	
C7670,71	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		IC2001	BA6435S	IC	1	
C7673	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		IC2002	LM358P	IC	1	
C7675	ECEA1HK010	E. CAPACITOR 50V 1U	1		IC2004	UPC358C	IC	1	
C7676,77	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	2		IC3901	M51292FP	IC	1	
C7678	ECEA1CK100	E. CAPACITOR 16V 10U	1		IC3902,03	M52055FP	IC	2	
C7680	ECEA1HK2R2	E. CAPACITOR 50V 2.2U	1		IC3904	BU5747	IC	1	
C7681	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		IC3905	BA7004	IC	1	
C7901	ECEA1CK100	E. CAPACITOR 16V 10U	1		IC4001	BA7766AS	IC	1	
C7902	ECQV1H474JZ	P. CAPACITOR 50V 0.47U	1		IC4101	RC4565DD	IC	1	
C7903	ECUM1H1032FN	C. CAPACITOR CH 50V 0.01U	1		IC4501	BA7705K1	IC	1	
					IC4502	UPC78L05J	IC	1	
					IC4901	M51293FP	IC	1	
					IC4902	UPC78L06J	IC	1	
D301	MA4091	DIODE	1		IC6001	MN6743VRDA4	IC	1	
D304	1SS254	DIODE	1		IC6002	MN1280R	IC	1	
D601	1SS254	DIODE	1		IC6003	MC14519BCP	IC	1	
D711	MA3100L	DIODE	1		IC6004	LM393PS	IC	1	
D773	MA151K	DIODE	1		IC6005	AN6609N	IC	1	
D801-04	1SS254	DIODE	4		IC7301	TD1048G	IC	1	
D2009	MA153	DIODE	1		IC7651	AN5421	IC	1	
D2011	MA153	DIODE	1		IC7652	AN5043	IC	1	
D3001,02	1SS254	DIODE	2		IC7653	MN4066BS	IC	1	
D3004	MA723	DIODE	1		IC7901	UPD4011BC	IC	1	
D3005,06	1SS254	DIODE	2						
D3901	1SS254	DIODE	1						
D3902	MA4068M	DIODE	1						
D3903	MA27W	DIODE	1		J3951,52	VJS1469	CONNECTOR (FEMALE)	2	
D3904	1SS254	DIODE	1						
D4003-06	1SS254	DIODE	4						
D4101	1SS254	DIODE	1						
D6001,02	1SS254	DIODE	2		L301	ELESP101KA	COIL 100UH	1	
D6005	1SS254	DIODE	1		L302	ELESP220KA	COIL 22UH	1	
D6006	MA723	DIODE	1		L303,04	ELESP101KA	COIL 100UH	2	
D6008,09	MA723	DIODE	2		L309,10	ELESP101KA	COIL 100UH	2	
D6010,11	1SS254	DIODE	2		L311	ELESP2R2KA	COIL 2.2UH	1	
D6013	MA204WK	DIODE	1		L312	ELESP101KA	COIL 100UH	1	
D6014	MA4075M	DIODE	1		L701-03	VLQEL05F680K	COIL 68UH	3	
D6015	1SS254	DIODE	1		L704	ELQ71R2KB	COIL 1.2UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L705	VLQ0213MR33	COIL 0.33H	1	
L709	VLQEL05F8R2K	COIL 8.2UH	1	
L711	ELQTR22XB	COIL 0.22UH	1	
L715	VLQEL05F680K	COIL 68UH	1	
L721	ELB5A081	COIL	1	
L809-11	ELESP101KA	COIL 100UH	3	
L813	ELESP221KA	COIL 220UH	1	
L814	ELESP120KA	COIL 12UH	1	
L815	ELESP221KA	COIL 220UH	1	
L818	ELESP680JA	COIL 68UH	1	
L2002	ELESP102KA	COIL 1000UH	1	
L2003	ELESP101KA	COIL 100UH	1	
L3001	ELESP101KA	COIL 100UH	1	
L3601	ELESP101KA	COIL 100UH	1	
L3602	ELESP270KA	COIL 27UH	1	
L3604	ELESP680KA	COIL 6.8UH	1	
L3609	ELESP680KA	COIL 68UH	1	
L3610	ELESP120KA	COIL 12UH	1	
L3611	ELESP820KA	COIL 82UH	1	
L3615	ELESP101KA	COIL 100UH	1	
L3617	ELESP101KA	COIL 100UH	1	
L3901-06	ELESP101KA	COIL 100UH	6	
L4001	VLQEL07R153J	COIL 15H	1	
L4002	ELESP471KA	COIL 470UH	1	
L4102	ELESP1R0KA	COIL 1UH	1	
L4106	ELESP101KA	COIL 100UH	1	
L4501,02	ELESP101KA	COIL 100UH	2	
L4503,04	VLQ0422	COIL	2	
L6001	VLPO074	COIL	1	
L6002,03	ELESP101KA	COIL 100UH	2	
L7302	ELQTR68XB	COIL 0.68UH	1	
L7303	ELESP100KA	COIL 10UH	1	
P001	VJS1232T	CONNECTOR (FEMALE)	1	
P501	VJS1238T	CONNECTOR (FEMALE)	1	
P551	VJS1236T	CONNECTOR (FEMALE)	1	
P1001	VJS2593	CONNECTOR (FEMALE)	1	
P1101	VJS1931T	CONNECTOR (FEMALE)	1	
P1502	VJS1141T	CONNECTOR (FEMALE)	1	
P2001	VJS1666	CONNECTOR (FEMALE)	1	
P2002	VJP1232T	CONNECTOR (MALE) 5P	1	
P2002	VJS1232T	CONNECTOR (FEMALE)	1	
P2003	VJP1229T	CONNECTOR (MALE) 2P	1	
P3001	VJP1238T	CONNECTOR (MALE) 11P	1	
P3001	VJS1238T	CONNECTOR (FEMALE)	1	
P4001	VJP1231T	CONNECTOR (MALE) 4P	1	
P4002	VJP1236T	CONNECTOR (MALE) 9P	1	
P4002	VJS1229T	CONNECTOR (FEMALE)	1	
P4002	VJS1236T	CONNECTOR (FEMALE)	1	
P4003	VJP1231T	CONNECTOR (MALE) 4P	1	
P4003	VJS1231T	CONNECTOR (FEMALE)	1	
P4004	VJS1668	CONNECTOR	1	
P4005	VJS1666	CONNECTOR (FEMALE)	1	
P4901	VJP1244T	CONNECTOR (MALE) 4P	1	
P4901	VJS1231T	CONNECTOR (FEMALE)	1	
P6001	VJS1477	CONNECTOR (FEMALE)	1	
P6002	VJP2593	CONNECTOR (MALE)	1	
P6004	VJS2571A004	CONNECTOR (FEMALE)	1	
P6005	VJP1239T	CONNECTOR (MALE) 12P	1	
P6005	VJS1239T	CONNECTOR (FEMALE)	1	
P6006	VJP1229T	CONNECTOR (MALE) 2P	1	
P6501	VJS1239T	CONNECTOR (FEMALE)	1	
P6502	VJS1231T	CONNECTOR (FEMALE)	1	
P6503	VJS1230T	CONNECTOR (FEMALE)	1	
P6504	VJS1231T	CONNECTOR (FEMALE)	1	
P7504	VJS1230T	CONNECTOR (FEMALE)	1	
Q301	MSB709	TRANSISTOR	1	
Q302,03	MSC2295	TRANSISTOR	2	
Q304	MSD601	TRANSISTOR	1	
Q601	2SB1320	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q602	2SB790	TRANSISTOR	1	(R,S)
Q603	2SA1309	TRANSISTOR	1	
Q604	2SB790	TRANSISTOR	1	(R,S)
Q701	2SC2377	TRANSISTOR	1	(C)
Q703	2SD601	TRANSISTOR	1	(S,T)
Q705	2SD638	TRANSISTOR	1	
Q771	2SD601	TRANSISTOR	1	(S,T)
Q772	2SD601	TRANSISTOR CHIP	1	(S,T)
Q804	MSB709	TRANSISTOR	1	
Q805	MSC2295	TRANSISTOR	1	
Q809,10	MSC2295	TRANSISTOR	2	
Q838	MSB709	TRANSISTOR	1	
Q3001	2SC3311	TRANSISTOR	1	
Q3003	2SA1309	TRANSISTOR	1	
Q3005	MSD601	TRANSISTOR	1	
Q3601	MSC2295	TRANSISTOR	1	
Q3602	MSB709	TRANSISTOR	1	
Q3603,04	MSC2295	TRANSISTOR	2	
Q3606	MSD601	TRANSISTOR	1	
Q3901	2SB1321A	TRANSISTOR	1	
Q3902,03	MSB709	TRANSISTOR	2	
Q3904,05	MSD601	TRANSISTOR	2	
Q3906	MSB709	TRANSISTOR	1	
Q3907-09	MSD601	TRANSISTOR	3	
Q4001	2SD1992A	TRANSISTOR	1	(R)
Q4501	MSD601	TRANSISTOR	1	
Q4502,03	2SD1306	TRANSISTOR	2	
Q4504	MSB709	TRANSISTOR	1	
Q6001	2SD893	TRANSISTOR	1	
Q6002	2SC3311	TRANSISTOR	1	
Q6003	2SD592	TRANSISTOR	1	
Q6004	2SD1273	TRANSISTOR	1	(P)
Q6005	MSD601	TRANSISTOR	1	
Q6007	2SD1273	TRANSISTOR	1	(P)
Q6008	2SD1992	TRANSISTOR	1	
Q6009	2SC3311	TRANSISTOR	1	
Q6019	MSC2295	TRANSISTOR	1	
Q6020	MSD601	TRANSISTOR	1	
Q6021	2SD1273	TRANSISTOR	1	(P)
Q7301	2SC2188	TRANSISTOR	1	
Q7302	MSD1328	TRANSISTOR	1	(S,T)
QR601-03	MRN1404	TRANSISTOR-RESISTOR	3	
QR701	UN2211	TRANSISTOR-RESISTOR	1	
QR702	UN2212	TRANSISTOR-RESISTOR	1	
QR703,04	UN2213	TRANSISTOR-RESISTOR	2	
QR713	UN2213	TRANSISTOR-RESISTOR	1	
QR801	MRN1402	TRANSISTOR-RESISTOR	1	
QR802	MRN1403	TRANSISTOR-RESISTOR	1	
QR803	MRN2402	TRANSISTOR-RESISTOR	1	
QR805	MRN2402	TRANSISTOR-RESISTOR	1	
QR2008	MRN1404	TRANSISTOR-RESISTOR	1	
QR2009	MRN2403	TRANSISTOR-RESISTOR	1	
QR2012	MRN1404	TRANSISTOR-RESISTOR	1	
QR2013	MRN2404	TRANSISTOR-RESISTOR	1	
QR2014	MRN1404	TRANSISTOR-RESISTOR	1	
QR2015	MRN2404	TRANSISTOR-RESISTOR	1	
QR3001	MRN1403	TRANSISTOR-RESISTOR	1	
QR3003	MRN2402	TRANSISTOR-RESISTOR	1	
QR3004	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3005	MRN1407	TRANSISTOR-RESISTOR	1	
QR3006	MRN1403	TRANSISTOR-RESISTOR	1	
QR3007	MRN1402	TRANSISTOR-RESISTOR	1	
QR3009	MRN1403	TRANSISTOR-RESISTOR	1	
QR3901	MRN1403	TRANSISTOR-RESISTOR	1	
QR3902	MRN1403	TRANSISTOR-RESISTOR	1	
QR4001	MRN1404	TRANSISTOR-RESISTOR	1	
QR4102	MRN1404	TRANSISTOR-RESISTOR	1	
QR4103,04	MRN2403	TRANSISTOR-RESISTOR	2	
QR4105,06	MRN1404	TRANSISTOR-RESISTOR	2	
QR4108	MRN1404	TRANSISTOR-RESISTOR	1	
QR4109	MRN1403	TRANSISTOR-RESISTOR	1	
QR4501,02	MRN1404	TRANSISTOR-RESISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR6001	MRN1404	TRANSISTOR-RESISTOR	1		R716	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
QR6002	MRN1402	TRANSISTOR-RESISTOR	1		R720	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
QR6003,04	MRN2404	TRANSISTOR-RESISTOR	2		R721	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
QR6005	MRN2402	TRANSISTOR-RESISTOR	1		R722	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
QR6006	MRN1404	TRANSISTOR-RESISTOR	1		R723	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
QR6007	MRN1403	TRANSISTOR-RESISTOR	1		R725	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
QR6008-10	MRN1404	TRANSISTOR-RESISTOR	3		R726	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
QR6011	MRN1403	TRANSISTOR-RESISTOR	1		R727	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
QR6012	MRN2404	TRANSISTOR-RESISTOR	1		R728	ERJ6GEYJ181	M.RESISTOR CH 1/10W 180	1	
QR6014	MRN1404	TRANSISTOR-RESISTOR	1		R729	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
QR6015	MRN1402	TRANSISTOR-RESISTOR	1		R730	ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1	
QR6016	MRN1404	TRANSISTOR-RESISTOR	1		R731	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
QR6023	MRN2404	TRANSISTOR-RESISTOR	1		R732	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
QR6024	MRN1404	TRANSISTOR-RESISTOR	1		R733	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
QR6026	MRN1404	TRANSISTOR-RESISTOR	1		R736	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
QR6029,30	MRN1404	TRANSISTOR-RESISTOR	2		R737	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
					R738	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
					R739	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
					R740	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
		RESISTORS			R770	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R301	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1		R772	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R302	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1		R773	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R303	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R774	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R304	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R781	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R305	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1		R790	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R306	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1		R792	ERJ6GEYJ120	M.RESISTOR CH 1/10W 12	1	
R307	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R793	ERJ6GEYJ183	M.RESISTOR CH 1/10W 180K	1	
R308	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1		R795	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R309	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1		R799	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R310	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R817,18	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R311,12	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2		R819	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R316	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1		R820	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R325	ERDS2TJ151	C.RESISTOR 1/4W 150	1		R821	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R326	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1		R822,23	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R327	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1		R824	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R328	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1		R825	ERJ6GMYG304	M.RESISTOR CH 1/10W 300K	1	
R330	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1		R826	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R331	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1		R827	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R332	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1		R828	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R334,35	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2		R834	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R336	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1		R841	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R338	ERJ6GMYJ124	M.RESISTOR CH 1/10W 120K	1		R842	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R389	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1		R843	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R390	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		R844	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R601	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R845	ERJ6GMYJ680	M.RESISTOR CH 1/10W 68	1	
R602	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1		R846	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R603	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R847	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R604	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R848-50	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R605	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R859	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R606	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1		R860	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R607	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R871	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R608	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1		R872,73	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	2	
R609	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1		R874	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R610	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1		R880	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R611,12	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2		R888	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R613	ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1		R889	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R614	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1		R892	ERTD2FIL154S	THERMISTOR 150K	1	
R615	ERJ6GEYJ184	M.RESISTOR CH 1/10W 180K	1		R893	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R616	ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1		R895	ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R617,18	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2		R896	ERJ6GMYG563	M.RESISTOR CH 1/10W 56K	1	
R619	ERDS1TJ470	C.RESISTOR 1/2W 47	1		R2010	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R702	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1		R2012	ERJ6GMYG472	M.RESISTOR CH 1/10W 4.7K	1	
R703	ERDS2TJ122	C.RESISTOR 1/4W 1.2K	1		R2013	ERJ6GMYG153	M.RESISTOR CH 1/10W 15K	1	
R704	ERJ6GEYJ180	M.RESISTOR CH 1/10W 18	1		R2014	ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R705	ERJ6GEYJ154	M.RESISTOR CH 1/10W 150K	1		R2016	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R706	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1		R2018	ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R707	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1		R2019	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R708	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1		R2020,21	ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R709	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1		R2022,23	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R710	ERJ6GEYJ684	M.RESISTOR CH 1/10W 680K	1		R2024	ERX12SJR47E	M.RESISTOR 1/2W 0.47	1	
R711	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1		R2025,26	ERDS2TJ330	C.RESISTOR 1/4W 33	2	
R712	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1		R2027,28	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R713	ERJ6GEYJ751	M.RESISTOR CH 1/10W 750	1		R2029	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R714	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1		R2030	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R715	ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1		R2031	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2032	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2033	ERJ6GMY0513	M.RESISTOR CH1/10W 51K	1	
R2034, 35	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R2036	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R2038	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R2039-41	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R2042	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2043	ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2044, 45	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R2046, 47	ERDS2TJ223	C.RESISTOR 1/4W 22K	2	
R3001	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3002	ERDS2TJ332	C.RESISTOR 1/4W 3.3K	1	
R3005	ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3007	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3009	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3011	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3012	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R3015	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3016, 17	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R3018	ERJ6GMYJ104	M.RESISTOR CH 1/10W 560	1	
R3019	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R3020	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3021	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3022	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3023	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R3025	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R3027	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3028	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3029	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3601, 02	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R3603	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3604	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3605	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R3606, 07	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3611	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3613	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3614	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3615	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R3617	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3618	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3619	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3620, 21	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3901, 02	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3903	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3909	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3916-20	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	5	
R3921	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3922	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R3924	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3925	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3926	ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R3927	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R3928	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3930	ERDS2TJ331	C.RESISTOR 1/4W 330	1	
R3931	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3932	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3933	ERJ6GMYJ911	M.RESISTOR CH1/10W 910	1	
R3934	ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R3935	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3936	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3937	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3938, 39	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R3940	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3953	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3954	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3955	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R3956	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3957	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R3958	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3968, 69	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3970, 71	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R3972	ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3973	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3977	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3980	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3982	ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4001	ERDS2TJ100	C.RESISTOR 1/4W 10	1	
R4002	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4003	ERDS2TJ203	C.RESISTOR 1/4W 20K	1	
R4004, 05	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	2	
R4006	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4007	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R4008	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4009	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4010	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4011, 12	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	2	
R4013	ERJ6GMYJ394	M.RESISTOR CH 1/10W 390K	1	
R4014	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4015	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4016	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4017	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4018	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4019	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R4020	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4021	ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R4022	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4023	ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4024, 25	ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	2	
R4026	ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R4027	ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4030	ERJ6GMYJ512	M.RESISTOR CH 1/10W 5.1K	1	
R4031	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4048	ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R4049	ERJ6GMYJ820	M.RESISTOR CH1/10W 82	1	
R4053	ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R4101	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4104	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4105	ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R4106	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4107	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4108	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4111	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4112	ERDS2TJ680	C.RESISTOR 1/4W 68	1	
R4113, 14	ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	2	
R4115	ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4116	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4117	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4119	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R4121	ERJ6GMYOR00	M.RESISTOR CH 1/10W 0.00	1	
R4122	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4123	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4124	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4501	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4502	ERJ6GMYG681	M.RESISTOR CH 1/10W 680	1	
R4503	ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R4504	VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1	
R4505	ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R4506	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R4507	ERJ6GMYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4508	ERJ6GMYG104	M.RESISTOR CH 1/10W 100K	1	
R4511	ERJ6GMYG303	M.RESISTOR CH 1/10W 30K	1	
R4512	VRE0034E912	M.RESISTOR CH 1/10W 9.1K	1	
R4513	VRE0034E272	M.RESISTOR CH 1/10W 2.7K	1	
R4514	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R4515	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4516	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4517	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4520	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R4521	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4522	ERJ6GMYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4523	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4525, 26	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R4527	VRE0034E223	M.RESISTOR CH 1/10W 22K	1	
R4528	VRE0034E393	M.RESISTOR CH 1/10W 39K	1	
R4529	ERJ6GMYG163	M.RESISTOR CH1/10W 16K	1	
R4530	ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R4533	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R4534	VRE0034E152	M.RESISTOR CH 1/10W 1.5K	1	
R4535	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4536	ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4539	ERJ6GMJ104	M.RESISTOR CH 1/10W 100K	1		R6037	EROS2CKG5601	M.RESISTOR 1/4W 5.6K	1	
R4540	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	1		R6038	ERJ6GMJG332	M.RESISTOR CH 1/10W 3.3K	1	
R4541	ERJ6GMJ821	M.RESISTOR CH 1/10W 820	1		R6039	ERJ6GMJG912	M.RESISTOR CH 1/10W 9.1K	1	
R4542	ERJ6GMJ222	M.RESISTOR CH 1/10W 2.2K	1		R6050	ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R4551	ERJ6GEYG821	M.RESISTOR CH 1/10W 820	1		R6051	ERJ6GMJY000	M.RESISTOR CH 1/10W 0.00	1	
R4552	ERJ6GMJG681	M.RESISTOR CH 1/10W 680	1		R6052	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4553	ERJ6GMJG821	M.RESISTOR CH 1/10W 820	1		R6053	ERJ6GMJ561	M.RESISTOR CH 1/10W 560	1	
R4554	VRE0034E112	M.RESISTOR CH 1/10W 1.1K	1		R6054	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R4555	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1		R6055	ERSF3QJR90U	M.RESISTOR	0.9	1
R4556	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	1		R6056,57	ERJ6GMJ272	M.RESISTOR CH 1/10W 2.7K	2	
R4557	ERJ6GMJG562	M.RESISTOR CH 1/10W 5.6K	1		R6059	ERJ6GMJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4558	ERJ6GMJ104	M.RESISTOR CH 1/10W 100K	1		R6060	ERJ6GMJ681	M.RESISTOR CH 1/10W 680	1	
R4561	ERJ6GMJG303	M.RESISTOR CH 1/10W 30K	1		R6061	ERJ6GMJ102	M.RESISTOR CH 1/10W 1K	1	
R4562	VRE0034E113	M.RESISTOR CH 1/10W 11K	1		R6062	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4563	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1		R6063	ERJ6GMJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4564	ERJ6GMJ331	M.RESISTOR CH 1/10W 330	1		R6064	ERJ6GMJ124	M.RESISTOR CH 1/10W 120K	1	
R4565	ERJ6GMJ223	M.RESISTOR CH 1/10W 22K	1		R6065	ERJ6GMJ561	M.RESISTOR CH 1/10W 560	1	
R4566	ERJ6GMJ182	M.RESISTOR CH 1/10W 1.8K	1		R6066	ERJ6GMJ182	M.RESISTOR CH 1/10W 1.8K	1	
R4567	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	1		R6067	ERJ6GMJ683	M.RESISTOR CH 1/10W 68K	1	
R4573	ERJ6GMJ152	M.RESISTOR CH 1/10W 1.5K	1		R6068	ERJ6GMJ271	M.RESISTOR CH 1/10W 270	1	
R4574	ERJ6GMJ221	M.RESISTOR CH 1/10W 220	1		R6069	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1	
R4576	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1		R6070,71	ERJ6GMJ221	M.RESISTOR CH 1/10W 220	2	
R4577	ERJ6GEY182	M.RESISTOR CH 1/10W 1.8K	1		R6072	ERJ6GMJ271	M.RESISTOR CH 1/10W 270	1	
R4578	VRE0034E223	M.RESISTOR CH 1/10W 22K	1		R6073	ERJ6GMJ561	M.RESISTOR CH 1/10W 560	1	
R4901	ERJ6GMJ393	M.RESISTOR CH 1/10W 39K	1		R6074	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R4902	ERJ6GMJG203	M.RESISTOR CH1/10W 20K	1		R6076	ERJ6GMJ223	M.RESISTOR CH 1/10W 22K	1	
R4903	ERJ6GMJ393	M.RESISTOR CH 1/10W 39K	1		R6077	ERJ6GMJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4904	ERJ6GMJG203	M.RESISTOR CH1/10W 20K	1		R6087	ERJ6GMJ181	M.RESISTOR CH 1/10W 180	1	
R4905	ERJ6GMJ563	M.RESISTOR CH 1/10W 56K	1		R6095	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	1	
R4906	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	1		R6096	ERJ6GMJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4907	ERJ6GMJ393	M.RESISTOR CH 1/10W 39K	1		R6100	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1	
R4908	ERJ6GMJG203	M.RESISTOR CH1/10W 20K	1		R6101,02	ERJ6GMJ102	M.RESISTOR CH 1/10W 1K	2	
R4909	ERJ6GMJ393	M.RESISTOR CH 1/10W 39K	1		R6103	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	1	
R4910	ERJ6GMJG203	M.RESISTOR CH1/10W 20K	1		R6106	ERGLS120E	M.RESISTOR 1W 12	1	
R4911	ERJ6GMJ563	M.RESISTOR CH 1/10W 56K	1		R6107,08	ERJ6GMJ101	M.RESISTOR CH 1/10W 100	2	
R4912,13	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	2		R6109	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	1	
R4914	ERJ6GMJ153	M.RESISTOR CH 1/10W 15K	1		R6110	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4915,16	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	2		R6113	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	1	
R4917,18	ERJ6GMJ681	M.RESISTOR CH 1/10W 680	2		R6114	ERJ6GMJ393	M.RESISTOR CH 1/10W 39K	1	
R4919,20	ERJ6GMJ154	M.RESISTOR CH 1/10W 150K	2		R6115	ERJ6GMJ561	M.RESISTOR CH 1/10W 560	1	
R4921,22	ERJ6GMJ681	M.RESISTOR CH 1/10W 680	2		R6116,17	ERJ6GMJ223	M.RESISTOR CH 1/10W 22K	2	
R4923,24	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	2		R6118	ERJ6GMJ102	M.RESISTOR CH 1/10W 1K	1	
R4925,26	ERJ6GMJ221	M.RESISTOR CH 1/10W 220	2		R6119	ERJ6GMJ104	M.RESISTOR CH 1/10W 100K	1	
R4927,28	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	2		R6120	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4929,30	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	2		R6123-25	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	3	
R4931,32	ERJ6GMJ104	M.RESISTOR CH 1/10W 100K	2		R6126	ERJ6GMJ221	M.RESISTOR CH 1/10W 220	1	
R4933,34	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	2		R6128	ERJ6GMJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4935	ERJ6GMJ223	M.RESISTOR CH 1/10W 22K	1		R6129,30	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	2	
R4936	ERJ6GMJ183	M.RESISTOR CH 1/10W 18K	1		R7301	ERJ6GEY102	M.RESISTOR CH 1/10W 1K	1	
R4937,38	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	2		R7302	ERJ6GEY562	M.RESISTOR CH 1/10W 5.6K	1	
R4939	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	1		R7303	ERD2FCG330	C.RESISTOR 2W 33	1	<1>
R4940,41	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	2		R7304	ERJ6GEY103	M.RESISTOR CH 1/10W 10K	1	
R4942	ERJ6GMJ221	M.RESISTOR CH 1/10W 220	1		R7305,06	ERJ6GEY102	M.RESISTOR CH 1/10W 1K	2	
R6001	ERJ6GMJ471	M.RESISTOR CH 1/10W 470	1		R7307	ERJ6GEY333	M.RESISTOR CH 1/10W 33K	1	
R6002	ERJ6GMJ122	M.RESISTOR CH 1/10W 1.2K	1		R7308	ERJ6GEY103	M.RESISTOR CH 1/10W 10K	1	
R6003	ERJ6GMJ222	M.RESISTOR CH 1/10W 2.2K	1		R7310	ERJ6GEY472	M.RESISTOR CH 1/10W 4.7K	1	
R6004,05	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	2		R7311	ERJ6GEY822	M.RESISTOR CH 1/10W 8.2K	1	
R6006	ERJ6GMJ332	M.RESISTOR CH 1/10W 3.3K	1		R7312	ERJ6GEY101	M.RESISTOR CH 1/10W 100	1	
R6007-09	ERJ6GMJ561	M.RESISTOR CH 1/10W 560	3		R7313	ERJ6GEY822	M.RESISTOR CH 1/10W 8.2K	1	
R6010,11	ERJ6GMJ223	M.RESISTOR CH 1/10W 22K	2		R7314	ERJ6GEY103	M.RESISTOR CH 1/10W 10K	1	
R6012-15	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	4		R7320	ERJ6GEY123	M.RESISTOR CH 1/10W 12K	1	
R6016-21	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	6		R7651	ERJ6GEY332	M.RESISTOR CH 1/10W 3.3K	1	
R6022,23	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	2		R7654	ERJ6GEY562	M.RESISTOR CH 1/10W 5.6K	1	
R6024	ERJ6GMJ472	M.RESISTOR CH 1/10W 4.7K	1		R7655	ERJ6GEY472	M.RESISTOR CH 1/10W 4.7K	1	
R6025	ERJ6GMJ473	M.RESISTOR CH 1/10W 47K	1		R7656	ERJ6GEY151	M.RESISTOR CH 1/10W 150	1	
R6026	ERJ6GMJ333	M.RESISTOR CH 1/10W 33K	1		R7657	ERJ6GEY104	M.RESISTOR CH 1/10W 100K	1	
R6027	ERJ6GMJ271	M.RESISTOR CH 1/10W 270	1		R7658	ERJ6GEY393	M.RESISTOR CH 1/10W 39K	1	
R6028	ERJ6GMJ152	M.RESISTOR CH 1/10W 1.5K	1		R7659	ERJ6GEY822	M.RESISTOR CH 1/10W 8.2K	1	
R6029	ERJ6GMJ562	M.RESISTOR CH 1/10W 5.6K	1		R7661	ERJ6GEY562	M.RESISTOR CH 1/10W 5.6K	1	
R6030	ERJ6GMJ121	M.RESISTOR CH 1/10W 120	1		R7662	ERJ6GEY393	M.RESISTOR CH 1/10W 39K	1	
R6031	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1		R7663	ERJ6GEY222	M.RESISTOR CH 1/10W 2.2K	1	
R6032	ERD2FCVG220	C.RESISTOR 2W 22	1	<1>	R7664	ERJ6GEY332	M.RESISTOR CH 1/10W 3.3K	1	
R6033	ERG2SJ180	M.RESISTOR 2W 18	1		R7671,72	ERJ6GEY473	M.RESISTOR CH 1/10W 47K	2	
R6034	ERJ6GMJ103	M.RESISTOR CH 1/10W 10K	1		R7673	ERJ6GEY104	M.RESISTOR CH 1/10W 100K	1	
R6036	ERDS1TJ332	C.RESISTOR 1/2W 3.3K	1		R7674	ERJ6GEY124	M.RESISTOR CH 1/10W 120K	1	

[illegible]

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D7516,17	MA73	DIODE	2		R7584	ERJ6GMYG561W	M.RESISTOR CH 1/10W 560	1	
D7530	MA73	DIODE	1		R7585	ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
D7532,33	MA73	DIODE	2						
D7538-42	MA73	DIODE	5						
D7553	LN38GCPL	DIODE	1						
D7560	MA73	DIODE	1		RX7501	EXBF6E104J	COBINATION R & R	1	
					RX7502	EXBF6E104J	COBINATION R & R	1	
					RX7503	EXBF6E104J	COBINATION R & R	1	
DP7501	VSLO185	DISPLAY TUBE	1						
					VR6701	EVMLGGA00B15	V.RESISTOR 100K	1	
IC6701	UPC1490HA	IC	1		VR7581	EWANYGX05J54	V.RESISTOR 50K	1	
IC7501	MN187125VFY	IC	1						
IC7502	MN12C261D	IC	1						
IC7503	MN1280L	IC	1		X7501	VSX0140	CRYSTAL OSCILLATOR	1	
IC7504	MN1280S	IC	1 (S)		X7502	VSX0094	CRYSTAL OSCILLATOR	1	
IC7505	BA6810S	IC	1						
							MISCELLANEOUS		
						VMD1478	LED SPACER	1	
L7501	ELESP221KA	COIL 220UH	1			VJF0790	FIP HOLDER	1	
						VSC2987	SHIELD (MAIN)	1	FOR IR RECEIVER
						VSC2988	SHIELD (BOTTOM)	1	FOR IR RECEIVER
P7501	VJS1690	CONNECTOR	1						
P7502	VJS1688	CONNECTOR	1						
P7503	VJP2887	CONNECTOR	1						
P7504	VJP1243T	CONNECTOR (MALE) 3P	1			VEP01420A	POWER C.B.A.		(NLA)
QR7501	MRN1404	TRANSISTOR-RESISTOR	1				CAPACITORS		
QR7503	MRN2404	TRANSISTOR-RESISTOR	1		C1101	ECQU2A224MN	P.CAPACITOR 100V 0.22U	1	<1>
QR7505	MRN2402	TRANSISTOR-RESISTOR	1		C1102	ECQU2A154MNB	P.CAPACITOR 100V 0.15U	1	<1>
QR7510-12	MRN2403	TRANSISTOR-RESISTOR	3		C1108	ECOS2GU820B	C.CAPACITOR 400V 82P	1	
QR7513	MRN1404	TRANSISTOR-RESISTOR	1		C1109	ECEA2GG010	E.CAPACITOR 400V 1U	1	
					C1110	ECQE6473JZ	P.CAPACITOR 630V 0.047U	1	
					C1111	ECKD3D331KBN	C.CAPACITOR 2KV 330P	1	
					C1112	ECQB1H682JZ	P.CAPACITOR 50V 6800P	1	
					C1113	ECQV1H334JF	P.CAPACITOR 50V 0.33U	1	
					C1114	ECEA1CKLV470	E.CAPACITOR 25V 47U	1	
					C1115	ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
R6701	ERDS2TJ124	C.RESISTOR 1/4W 120K	1		C1117	ECQP1101JZ	P.CAPACITOR 100V 100P	1	
R6702	ERDS2TJ8R2	C.RESISTOR 1/4W 8.2	1		C1118	ECEA1HGE101	E.CAPACITOR 50V 100U	1	
R7501	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1		C1119, 20	ECEA1DP5681X	E.CAPACITOR 20V 680U	2	
R7502	ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1		C1121	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
R7503	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1		C1122	ECEA1AF2681X	E.CAPACITOR 10V 680U	1	
R7504	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1		C1123	ECEA1HGE100	E.CAPACITOR 50V 10U	1	
R7505	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1		C1124, 25	ECEA1AGE101	E.CAPACITOR 10V 100U	2	
R7506	ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1		C1126	ECEA1CCE470	E.CAPACITOR 16V 47U	1	
R7507	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1		C1127	ECEA0JFZ471	E.CAPACITOR 6.3V 470U	1	
R7508-10	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3		C1128-31	ECKFIH103ZFB	C.CAPACITOR 50V 0.01U	4	
R7511	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1		C1132	ECEA1CGE100	E.CAPACITOR 16V 10U	1	
R7512	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1		C1134, 35	ECKFIH103ZFB	C.CAPACITOR 50V 0.01U	2	
R7523-28	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	6		C1136	ECQV1H105JZ	P.CAPACITOR 50V 1U	1	
R7530-32	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3		C1142	ECKDMS471MB	C.CAPACITOR 400V 470P	1	<1>
R7533	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		C1145	ECKDMS471MB	C.CAPACITOR 400V 470P	1	<1>
R7534	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1		C1147	ECKDMS102MB	C.CAPACITOR 400V 1000P	1	<1>
R7536	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		C1149	ECKFIH821KB	C.CAPACITOR 50V 820P	1	
R7538	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1						
R7539	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1						
R7540	ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1						
R7541	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1						
R7542-44	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3		D1102	S1WBA60	DIODE	1	<1>
R7547	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1		D1103	VSD0002	DIODE	1	<1>
R7550, 51	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2		D1104	AP01C	DIODE	1	
R7556	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1		D1105	MA178	DIODE	1	
R7557	ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1		D1106	MA4030L	DIODE	1	
R7558, 59	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2		D1107	1SS254	DIODE	1	
R7560	ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1		D1108	ERA22-02	DIODE	1	
R7562, 63	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2		D1109	30DF2FC6	DIODE	1	
R7564	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1		D1110	10ELS2	DIODE	1	
R7581	ERJ6GMYG472	M.RESISTOR CH 1/10W 4.7K	1		D1111	31DQ04FC6	DIODE	1	
R7582	ERJ6GMYG561W	M.RESISTOR CH 1/10W 560	1		D1112	ERB83-004L17	DIODE	1	
R7583	ERJ6GMYG472	M.RESISTOR CH 1/10W 4.7K	1		D1113	MA2160B	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	■ VXA3825	MECHANISM CONNECTION C.B.A.		(N/A)	Q6802	2SB709	TRANSISTOR CHIP	1	(Q,R,S)
					Q6803	2SD601	TRANSISTOR CHIP	1	(Q,R,S)
IC1501.02	ON2170	PHOTO COUPLER	2						
P1504	VJS1493	CONNECTOR 15P	1		QR6803	DTC144TK	TRANSISTOR-RESISTOR	1	
	■ VEK3578	PHOTO Tr. (S) C.B.A.		(N/A)			RESISTORS		
					R6802.03	ERJ6QMYJ474	M.RESISTOR CH 1/10W 470K	2	
C1501	ECKF1H102KB	C.CAPACITOR 50V 1000P	1		R6804	ERJ6QMYJ394	M.RESISTOR CH 1/10W 390K	1	
					R6805	ERJ6QMYJ153V	M.RESISTOR CH 1/10W 15K	1	
					R6806	ERJ6QMYJ561	M.RESISTOR CH 1/10W 560	1	
					R6807	ERJ8CCYJ1R2	M.RESISTOR CH 1/8W 1.2	1	
Q1501	PN150NV	PHOTO TRANSISTOR	1		R6808	ERJ6QMYJ824	M.RESISTOR CH1/10W 820K	1	
					R6810	ERJ6QMYJ184	M.RESISTOR CH 1/10W 180K	1	
					R6812	ERJ6QMYJ273	M.RESISTOR CH 1/10W 27K	1	
					R6813	ERJ6QMYJ6R8	M.RESISTOR CH1/10W 6.8	1	
					R6814.15	ERJ6QMYJ473	M.RESISTOR CH 1/10W 47K	2	
					R6816	ERJ6QMYJ334V	M.RESISTOR CH 1/10W 330K	1	
		MISCELLANEOUS			R6817	ERJ6QMYJ331	M.RESISTOR CH 1/10W 330	1	
	VMD0645	PHOTO TRANSISTOR HOLDER	1						
	■ - - - - -	PHOTO Tr. (T) C.B.A.		(N/A)	SN6801	VSQ0567	SENSOR	1	
C1502	ECKF1H102KB	C.CAPACITOR 50V 1000P	1		VR6801	EVNDXAA00B34	V.RESISTOR 30K	1	
Q1502	PN150NV	PHOTO TRANSISTOR	1						
R1503	ERDS2TJ222	C.RESISTOR 1/2W 2.2K	1		X6801	EFOGC3524T4	CRYSTAL OSCILLATOR	1	
					X6802	EFBAL30D401K	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS							
	VMD0645	PHOTO TRANSISTOR HOLDER	1						
	■ VEP66125A	REMOTE CONTROLLER C.B.A.		(N/A)					
		CAPACITORS							
C6801	ECEA1AKA470I	E.CAPACITOR 10V 47U	1						
C6802	ECUM1E1042FM	C.CAPACITOR CH 25V 0.1U	1						
C6803	ECEV1CAN4R7R	E.CAPACITOR 16V 4.7U	1						
C6804	ECEA1HK010	E.CAPACITOR 50V 1U	1						
C6808.09	ECUM1H1032FN	C.CAPACITOR CH 50V 0.01U	2						
C6810	ECUM1E1042FM	C.CAPACITOR CH 25V 0.1U	1						
C6811	ECUM1H2232FN	C.CAPACITOR CH 50V 0.022U	1						
C6812	ECUM1E1542FM	C.CAPACITOR CH 25V 0.15U	1						
D6801	SE303ACYTF	DIODE	1						
D6803-12	MA221	DIODE	10						
D6817	MA221	DIODE	1						
IC6801	MV158455VSSD	IC	1						
IC6802	AN8356S	IC	1						
L6801	ELT3K017B	COIL	1						
Q6801	2SD1328	TRANSISTOR CHIP	1	(R,S)					